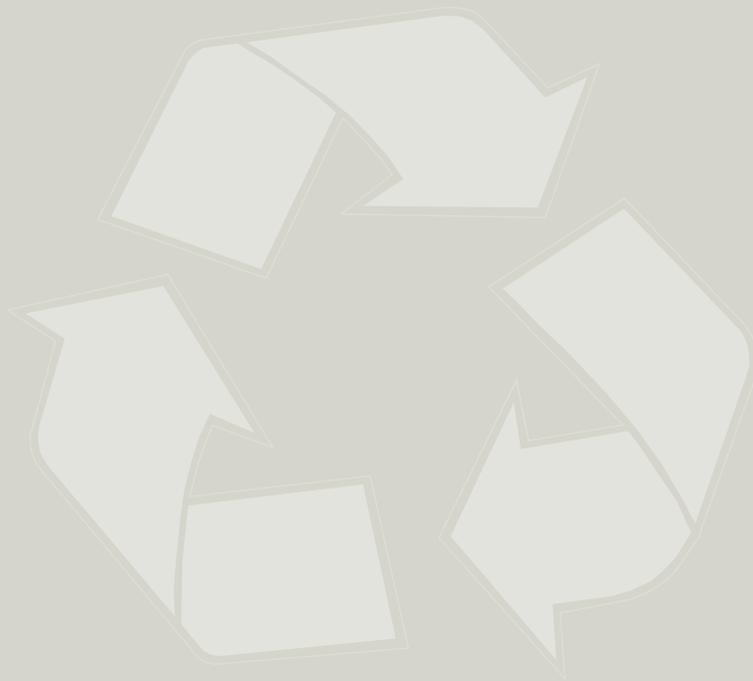


# APPROVED MANAGEMENT METHOD FOR BIOSOLIDS REUSE



JUNE 2006

DEPARTMENT OF TOURISM, ARTS AND THE ENVIRONMENT



Tasmania



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DEPARTMENT *of*  
TOURISM, ARTS and the ENVIRONMENT  
ENVIRONMENT DIVISION

## APPROVED MANAGEMENT METHOD FOR BIOSOLIDS REUSE

This approved management method (AMM) was approved by the Director of Environmental Management in accordance with regulation 12A(1) of the *Environmental Management and Pollution Control (Waste Management) Regulations 2000* (the Waste Management Regulations). Notice of approval was published in the *Tasmanian Government Gazette* of 5 July 2006.

1. Subject to Regulation 6(1A), Biosolids intended for reuse must not be removed from the site at which they have been produced unless they have been classified and tested in accordance with the procedures described in Sections 4 and 5 of the *Tasmanian Biosolids Reuse Guidelines August 1999* (TBRG). All records of analysis and associated documentation that have been used to classify Biosolids must be retained for at least 5 years and produced on demand to an authorised officer under EMPCA.
2. Both the owners of the Biosolids and persons undertaking Biosolids application to land should contact the local Council to ascertain whether any planning requirements apply.
3. Class 1 Biosolids (i.e. analysis indicates that the Biosolids meet both Contaminant Grade A requirements and Stabilisation Grade A requirements under TBRG) may be used for all beneficial reuse land applications provided the Nitrogen Limited Application Rate is complied with. Information on calculating application rates is outlined in Section 7 of the TBRG.
4. For Class 2 Biosolids intended for reuse by land application:
  - prior agreement must be reached with a landowner to receive the Biosolids and the owner must have verified that there is sufficient suitable land to receive the Biosolids in accordance with the TBRG; and
  - the owner of the Biosolids must arrange for the transport of the Biosolids to the reuse site by a person approved to do so by the Director, unless they transport the Biosolids themselves in accordance with Section 3.5 of the TBRG.
5. For the purposes of Regulation 6 of the *Environmental Management and Pollution Control (Waste Management) Regulations 2000*, the reuse of Class 2 Biosolids by application to land will be in accordance with this AMM if:
  - the application rate per three year period is less than 50% of the Nitrogen Limited Application Rate or less than 50 wet tonnes per hectare (whichever is the lesser); and
  - the application rate complies with the low-rate procedural requirements outlined in Section 7.4 of the TBRG, and

- application of the Biosolids complies with the site, activity and management requirements outlined in Section 6 of the TBRG.
- 6.** Application of Class 2 Biosolids to land must be referred to the Director of Environmental Management for assessment and approval where the application rate per three year period is to be greater than:
- 50 wet tonnes per hectare; or
  - 50% of the Nitrogen Limited Application Rate.
- 7.** The reuse of Class 3 Biosolids, including Biosolids that have not been tested and classified, by application to land is not approved by this AMM.

## **Explanatory Notes**

- i. This AMM provides the minimum legal requirements for the classification and reuse of biosolids in Tasmania. Greater detail on the issues associated with biosolids reuse is provided within the *Tasmanian Biosolids Reuse Guidelines 1999*.
- ii. Management of waste otherwise than in accordance with the AMM must be referred to the Director of Environmental Management for approval under Regulation 6 of the *Environmental Management and Pollution Control (Waste Management) Regulations 2000*.

### **Biosolids Classification**

- iii. Biosolids are classified in accordance with the requirements of Section 5 of the TBRG 1999. If Biosolids are not classified or if classified Biosolids fail to meet Class 1 or Class 2 requirements, they will be considered to be Class 3 Biosolids. If there is reason to believe abnormal contamination is present the Director of Environmental Management may require chemical analysis of untested Biosolids prior to approving disposal to landfill.

#### *Class 1 Biosolids*

- iv. Class 1 Biosolids are not considered a controlled waste and do not require an approved waste transporter to transport the material. However, transport of Class 1 Biosolids should be undertaken in a way that avoids causing environmental nuisance to the public.

#### *Class 3 Biosolids*

- v. Approval for disposal of Class 3 Biosolids must be sought from the Director of Environmental Management for disposal at a Category C landfill (refer *Landfill Sustainability Guide 2004*). Class 3 Biosolids are a controlled waste and require an approved waste transporter to transport the material when transported for fee or reward.

## GLOSSARY

<b>Approved Waste Transporter</b>	A transporter approved to transport the controlled waste category of Biosolids by the Director or a transporter approved by another state or territory.
<b>Biosolids</b>	Biosolids are a by-product of municipal wastewater treatment. The nutrients and organic matter in Biosolids are of value to farmers and can reduce fertiliser costs and improve the structure and fertility of soils.
<b>Biosolids Adjusted Contaminant Concentration</b>	A statistically modified measure of contaminant concentration based on current and historical data.
<b>Biosolids Stabilisation Grade</b>	Grading category used to describe the quality of a Biosolids product based on its microbiological characteristics, vector attraction and potential to generate offensive odours.
<b>Category C landfills</b>	At the time of writing Port Latta and Dulverton landfills are considered Category C landfills as defined in the <i>Landfill Sustainability Guide 2004</i> .
<b>Controlled Waste</b>	A substance that is a controlled waste within the meaning of the National Environment Protection Measure for the Movement of Controlled Waste Between States and Territories 1998 and amended in 2004 or as further prescribed by EMPC (Waste Management) Regulations 2000
<b>Nitrogen Limited Application Rate</b>	The maximum rate at which Biosolids can be applied without exceeding the agronomic nitrogen requirements determined in accordance with the TBRG.