

# Environmental Program

## WASTE MANAGEMENT

### BBA-ENP-1000-1400-0014

Revision	Date	Revision Description	Prepared	Reviewed	Approved
A0	27 April 2007	Draft for BBA review	IW		
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### Operational Control Tables

Table OCO 14.1 Waste Management

## 1. Purpose and Scope

This Environmental Program describes Waste Management measures to minimise the impact of the design and construction of the Gunns pulp mill.

This Environmental Program forms part of the Bell Bay Alliance (BBA) Construction Environmental Management Plan (CEMP) and must be read in conjunction with the CEMP.

## 2. Objectives

1. Manage all waste from the construction and operation phases of the project consistent with the requirements of industrial waste management policies, regulations and guidelines.

## 3. Targets

1. Ensure there are no potential hazards to human health and the environment as a result of waste generation and management for the construction and operation phases of the project.
2. Minimise waste through the adoption of best practice waste reduction and disposal procedures.
3. Achieve cost savings with the reduction of landfill fees and the need to purchase new material.
4. 100% recycling of waste concrete, waste asphalt, excavated clean fill, ferrous scrap, non-ferrous scrap, excavated contaminated soil (subject to approval) and waste timber.

## 4. Regulatory and Contractual Requirements

Refer to:

- CEMP Appendix B – Environmental Legislation Register
- CEMP Appendix C – Approvals Matrix
- CEMP Appendix D - Environmental Licences Register
- CEMP Appendix F – Environmental Commitments
- CEMP Environmental Obligations Register: GNS-OBL-1000-1400-001.

## 5. Technical Documents

The following background studies, research documents and assessments have been used to identify the key environmental aspects:

Reference	Document Title
<a href="http://www.gunnspulpmill.com.au/iis/">http://www.gunnspulpmill.com.au/iis/</a>	Bell Bay Pulp Mill Draft IIS and Appendices

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The following technical documents have been used to assist in identifying appropriate operational controls:

<b>Availability</b>	<b>Document Title</b>
EPA Victoria	Environment Protection Authority Publication 291 - Everyone's Guide to Living with Less Waste.
EPA Victoria	Environment Protection Authority Publication 351 - Waste Minimisation Assessments and Opportunities for Industry: A Practical Guide to Cleaner Production.
EPA Victoria	Environment Protection Authority Publication 358 - Procedures for Waste Assessment.
EPA Victoria	Environment Protection Authority Publication 383 - Guidelines For Preparation Of Waste Management Plans
EPA Victoria	Environment Protection Authority Publication 448 - Classification of Wastes
EPA Victoria	Environment Protection Authority Publication 480 – Environmental Guidelines for Major Construction Sites
EPA Victoria	Environment Protection Authority Publication 609 - Industrial Waste Strategy Zeroing in on Waste Pathways to Cleaner Production for Victorian Industries

## 6. Key Issues

Refer to:

- CEMP Appendix G – Environmental Risk Assessment.

The technical documents and the environmental risk assessment have identified the following key environmental issues:

- Sustainable development through application of the waste hierarchy.
- Control of contaminated waste (contaminated soil, acid sulphate soils, etc).
- Disposal of hazardous substances and dangerous goods used during the construction phase.
- Pollution or contamination of waterways and soil due to inappropriate waste disposal.

## 7. Operational Controls

Environmental outcomes to be achieved are:

- Application of waste hierarchy:
  - (a) avoidance;
  - (b) reuse;
  - (c) recycling;
  - (d) recovery of energy;
  - (e) treatment;
  - (f) containment; and
  - (g) disposal.
- Contaminated waste appropriately managed
- Hazardous waste to appropriately licensed landfill
- Unreusable/unrecyclable inert construction waste to purpose-built onsite landfill cell
- Putrescible waste to municipal landfill.

The operational controls for management of waste during design and construction are set out below:

<b>Table</b>	<b>Title</b>
OCO 14.1	Waste Management

The operational controls include requirements and responsibilities for:

- Consultation
- Approval requirements
- Design of temporary works
- Construction activities
- Commissioning and handover.

## 8. Site Environmental Plans

- Refer to SEP Register.

Site Environmental Plans (SEPs) detail practical environmental management measures to be implemented at specific worksites to minimise potential impacts of construction activity on the environment and community. They are designed to provide more site specific detail than is included in the Environmental Program and Operational Control tables.

The information contained in the SEPs is presented in tabular drawing format. This is to make them easy for use by all BBA site personnel, consultants and subcontractors.

The controls set out in the SEPs are drawn from the Environmental Programs.

## 9. Contingency Management

The environmental risk assessment has identified the following circumstances which could occur outside normal operating conditions:

- Unforeseen contamination due to the inappropriate disposal of waste.
- Discovery of contaminated material or waste.
- Illegal disposal of waste.

If these circumstances occur, the following contingency measures will be implemented:

- Control the source of the contamination, where practicable.
- Assess the risk and source of contamination, if required, DTAE will be contacted.
- Implement temporary controls to contain the contamination and review the construction method and control measures and improve if necessary.
- The modified methods and controls will be monitored to ensure compliance has been achieved.
- Conduct additional training to the relevant personnel as required.

## 10. Evaluating Performance

The Operational Controls, together with the SEPs are used as the basis for evaluating performance.

Refer to:

- CEMP Appendix I – Internal Environmental Audit Schedule.
- CEMP Appendix J – External Environmental Audit Schedule.

Environmental Checklists are used for evaluating performance.

Refer to:

- BBA-CKL-1000-1400-014A Waste Management.

## 11. Reporting

Refer to:

CEMP Appendix K – Environmental Reporting Program.

## 12. Attachments

Not Used.