
PERMIT PART B
PERMIT CONDITIONS - ENVIRONMENTAL No. 8700

Issued under the *Environmental Management and Pollution Control Act 1994*

Applicant: **COPPING REFUSE DISPOSAL SITE JOINT AUTHORITY trading as
Southern Waste Solutions
ABN 87 928 486 460
143 NELSON RD
MT NELSON TAS 7007**

Activity: **The construction and operation of a Category C Waste Depot Cell
(ACTIVITY TYPE: Other (non-inert) Waste Depots)
COPPING REGIONAL WASTE DEPOT, OFF ARTHUR HWY
COPPING TAS 7174**

The above activity has been assessed as a level 2 activity under the *Environmental Management and Pollution Control Act 1994*.

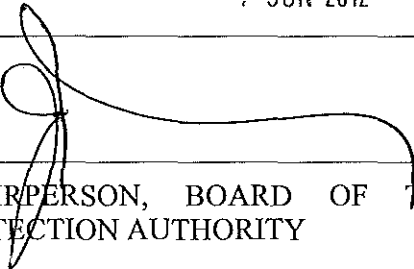
Acting under Section 25(5)(a)(i) of the EMPCA, the Board of the Environment Protection Authority has required that this Permit Part B be included in any Permit granted under the *Land Use Planning and Approvals Act 1993* with respect to the above activity.

Municipality: **SORELL**
Permit Application Reference: **DA2012:76**
EPA file reference: **112484**

Date conditions approved:

- 7 JUN 2012

Signed:



**CHAIRPERSON, BOARD OF THE ENVIRONMENT
PROTECTION AUTHORITY**

DEFINITIONS

Unless the contrary appears, words and expressions used in this Permit Part B have the meaning given to them in **Schedule 1** of this Permit and in the EMPCA. If there is any inconsistency between a definition in the EMPCA and a definition in this Permit Part B, the EMPCA prevails to the extent of the inconsistency.

ENVIRONMENTAL CONDITIONS

The person responsible for the activity must comply with the conditions contained in **Schedule 2** of this Permit Part B.

INFORMATION

Attention is drawn to **Schedule 3**, which contains important additional information.

Table Of Contents

Schedule 1: Definitions..... 5

Schedule 2: Conditions.....7

 Maximum Quantities..... 7

 Q1 Regulatory limits..... 7

 General..... 7

 G1 Access to and awareness of conditions and associated documents..... 7

 G2 Incident response..... 7

 G3 No changes without approval..... 7

 G4 Notification prior to commissioning..... 7

 G5 Commitments..... 7

 G6 Complaints register..... 7

 G7 Emergency Response Plan..... 8

 G8 Landfill area..... 8

 G9 Permitted waste types.....8

 G10 Annual Environmental Review.....8

 G11 Non-permitted waste types..... 9

 Atmospheric.....9

 A1 Control of dust emissions.....9

 Blasting..... 10

 B1 Blasting - noise and vibration limits..... 10

 B2 Notification of blasting..... 10

 Construction..... 10

 CN1 Construction Environmental Management Plan..... 10

 CN2 Cell liner construction plan 11

 CN3 Post construction report..... 11

 Decommissioning And Rehabilitation..... 11

 DC1 Notification of cessation..... 11

 DC2 Decommissioning and Rehabilitation Plan..... 11

 DC3 Rehabilitation upon cessation..... 12

 Effluent Management..... 12

 EM1 Perimeter drains..... 12

 EM2 Stormwater..... 12

 EM3 Fire fighting wastewater..... 12

 EM4 Stormwater to be excluded..... 12

 EM5 Stormwater..... 13

 EM6 Leachate management plan..... 13

 Fire Management..... 13

 FM1 Fire Management and Operations Plan..... 13

 Hazardous Substances..... 13

 H1 Storage and handling of hazardous materials..... 13

 H2 Spill kits..... 14

 Monitoring..... 14

 M1 Dealing with samples obtained for monitoring..... 14

 M2 Reporting of waste tonnage..... 14

 M3 Monitoring of leachate and groundwater..... 14

 M4 Liner integrity monitoring plan..... 14

 M5 Groundwater Monitoring Plan..... 15

 M6 Witness sump monitoring..... 15

 Operations..... 15

OP1 Site staff 15

OP2 Site security.....15

OP3 Waste cover.....15

OP4 Fire management16

OP5 Weed management16

OP6 Operational Procedures Manual.....16

OP7 Fire management plan.....16

OP8 Operational Procedures Manual.....16

Waste Management.....17

 WM1 Waste segregation plan.....17

Schedule 3: Information..... 18

 Legal Obligations.....18

 LO1 Notification of incidents under section 32 of EMPCA.....18

 LO2 EMPCA.....18

 LO3 Storage and handling of Dangerous Goods and Dangerous Substances..... 18

 LO4 Aboriginal relics requirements..... 19


 LO5 Change of responsibility.....19

Attachments

Attachment 1: The Land (modified: 18/05/2012 14:29)..... 1 page

Attachment 2: Commitments (modified: 25/05/2012 12:33)..... 2 pages

Attachment 3: Monitoring requirements (modified: 25/05/2012 12:38)..... 1 page



7 JUN 2012

Schedule 1: Definitions

In this Permit Part B:-

Aboriginal Relic has the meaning described in section 2(3) of the *Aboriginal Relics Act 1975*

Activity means any environmentally relevant activity (as defined in Section 3 of EMPCA) to which this document relates, and includes more than one such activity.

Authorized Officer means an authorized officer under section 20 of EMPCA

Best Practice Environmental Management or 'BPEM' has the meaning described in Section 4 of EMPCA

Classification And Management Of Contaminated Soil For Disposal means the document *Information Bulletin No. 105 Classification and Management of Contaminated Soil for Disposal* published by the Environment Protection Authority in November 2010, and includes any subsequent versions of this document.

Clean Fill means soil, rock, concrete, bituminised pavement or similar non-putrescible and non-water-soluble material that is not contaminated by other waste; and that does not contain contaminant levels exceeding limits for 'fill material' set by the Director in *Classification and Management of Contaminated Soil for Disposal*.

Commissioning means the initial deposition of wastes in to the Category C Cell.

Construction means activities associated with the construction phase of the activity, including but not limited to, activities associated with the clearance of vegetation, site works to create a level site, rock breaking, installation of fences and other infrastructure whether on land or in water.

Controlled Waste has the meaning described in Section 3(1) of EMPCA.

Director means the Director, Environment Protection Authority holding office under Section 18 of EMPCA and includes a person authorised in writing by the Director to exercise a power or function on the Director's behalf.

EMP means the DPEMP, prepared by Southern Waste Solutions 12 April 2012 and includes supplementary information presented in Response to Representor prepared by Southern Waste Solutions dated 22 May 2012, and includes any amendment to or substitution of these documents, including an EMP Operations, approved in writing by the Director.

EMPCA means the *Environmental Management and Pollution Control Act 1994*

Environmental Harm and **Material Environmental Harm** and **Serious Environmental Harm** each have the meanings ascribed to them in Section 5 of EMPCA

Environmental Nuisance and **Pollutant** each have the meanings ascribed to them in Section 3 of EMPCA

Environmentally Hazardous Material means any substance or mixture of substances of a nature or held in quantities which present a reasonably foreseeable risk of causing serious or material environmental harm if released to the environment and includes fuels, oils, waste and chemicals.

Inert Waste means waste that does not undergo environmentally significant physical, chemical or biological transformations and has no potentially hazardous content and is not contaminated with non-inert material, such as putrescible waste, and includes clean fill.

Landfill Sustainability Guide means the document of this title published by the Department of Primary Industries, Water and Environment in September 2004, and includes any subsequent versions of this document.

Liquid Waste means any waste that is in liquid form or is substantially comprised of free liquids or is not spadeable (able to be lifted and moved in heaps with a spade).

Noise Sensitive Premises means residences and residential zones (whether occupied or not), schools, hospitals, caravan parks and similar land uses involving the presence of individual people for extended periods, except in the course of their employment or for recreation.

Permeability means the level of saturated hydraulic conductivity also known as the K-value.

Person Responsible is any person who is or was responsible for the environmentally relevant activity to which this document relates and includes the officers, employees, contractors, joint venture partners and agents of that person, and includes a body corporate.

Putrescible Waste means waste containing materials that are capable of rapid biological decay or rotting

Recycling means a set of processes (including biological) for converting recovered materials that would otherwise be disposed of as wastes, into useful materials and/or products

Reporting Period means the 12 months ending on 30 November of each year.

Sewage Sludge means concentrated solids separated from wastewater during the wastewater treatment process.

Stormwater means water traversing the surface of the land as a result of rainfall.

Tasmanian Noise Measurement Procedures Manual means the Noise Measurement Procedures Manual dated July 2004 issued by the Director of Environmental Management in accordance with regulation 25 of the *Environmental Management and Pollution Control (Miscellaneous Noise) Regulations 2004* and includes any subsequent versions of the document.

The Land means the land on which the activity to which this document relates may be carried out, and includes: buildings and other structures permanently fixed to the land, any part of the land covered with water, and any water covering the land. The Land falls within the area defined by:

- 1 Lots 1, 3 and 4 on the Plan of Survey, Registered Number 126073 in Land District of Pembroke, Parish of Carlton, Tasmania; and
- 2 as further delineated at Attachment 1

Waste has the meaning ascribed to it in Section 3 of EMPCA.

Wastewater means spent or used water (whether from industrial or domestic sources) containing a pollutant and includes stormwater which becomes mixed with wastewater.

Witness Sump is the device incorporated into the Cell Liner as described in the EMP.

Schedule 2: Conditions

Maximum Quantities

Q1 Regulatory limits

- 1 The activity must not exceed the following limits:
 - 1.1 45,000 tonnes/year of waste received or likely to be received (excluding materials for recycling) (Annual fees are derived from this figure.)

General

G1 Access to and awareness of conditions and associated documents

A copy of these conditions and any associated documents referred to in these conditions must be held in a location that is known to and accessible to the person responsible for the activity. The person responsible for the activity must ensure that all persons who are responsible for undertaking work on The Land, including contractors and sub-contractors, are familiar with these conditions to the extent relevant to their work.

G2 Incident response

If an incident causing or threatening environmental nuisance, serious environmental harm or material environmental harm from pollution occurs in the course of the activity, then the person responsible for the activity must immediately take all reasonable and practicable action to minimise any adverse environmental effects from the incident.

G3 No changes without approval

- 1 The following changes, if they may cause or increase the emission of a pollutant which may cause material or serious environmental harm or environmental nuisance, must only take place in relation to the activity if such changes have been approved in writing by the EPA Board following its assessment of an application for a permit under the *Land Use Planning and Approvals Act 1993*, or approved in writing by the Director:
 - 1.1 a change to a process used in the course of carrying out the activity; or
 - 1.2 the construction, installation, alteration or removal of any structure or equipment used in the course of carrying out the activity; or
 - 1.3 a change in the quantity or characteristics of materials used in the course of carrying out the activity.

G4 Notification prior to commissioning

At least 14 days prior to the first deposition of wastes, the person responsible for the activity must notify the Director of the date on which the deposition of wastes is expected to commence.

G5 Commitments

The activity must be carried out in accordance with the commitments contained in Attachment 2 unless otherwise specified in these conditions or unless otherwise approved in writing by the Director.

G6 Complaints register

- 1 A public complaints register must be maintained and made available for inspection by an Authorized Officer upon request. The public complaints register must, as a minimum, record the following detail in relation to each complaint received in which it is alleged that environmental harm (including an environmental nuisance) has been caused by the activity:

- 1.1 the time at which the complaint was received;
 - 1.2 contact details for the complainant (where provided);
 - 1.3 the subject-matter of the complaint;
 - 1.4 any investigations undertaken with regard to the complaint; and
 - 1.5 the manner in which the complaint was resolved, including any mitigation measures implemented.
- 2 Complaint records must be maintained for a period of at least 3 years.

G7 Emergency Response Plan

Prior to the completion of commissioning, a detailed and site-specific Emergency Response Plan must be prepared and submitted to the Director for approval. The Plan must be prepared in consultation with the Director, the State Emergency Service and the Tasmanian Fire Service. The activity must be undertaken in accordance with the Plan which has been approved in writing by the Director, and any subsequent amendment to the Plan approved in writing by the Director.

G8 Landfill area

- 1 Unless otherwise approved by the Director in writing, deposition of waste must be confined within the landfilling footprint as shown in Attachment 1.
- 2 Unless otherwise approved by the Director in writing, the maximum height of waste deposition must not exceed 30 metres.

G9 Permitted waste types

- 1 Unless otherwise approved in writing by the Director, no wastes may be deposited or stored on The Land other than wastes of the following types:
 - 1.1 General Wastes:
 - 1.1.1 inert waste; and
 - 1.1.2 clean fill.
 - 1.2 Controlled wastes (subject to Hazardous Substances conditions):
 - 1.2.1 asbestos;
 - 1.2.2 tyres;
 - 1.2.3 medical sharps from non-commercial sources;
 - 1.2.4 sanitary waste;
 - 1.2.5 animal effluent and residues;
 - 1.2.6 sewage sludge;
 - 1.2.7 low level contaminated soil (as defined in *Classification and Management of Contaminated Soil for Disposal*)
 - 1.2.8 batteries (where stored for recycling); and
 - 1.2.9 waste oil (where stored for recycling).

G10 Annual Environmental Review

- 1 Unless otherwise specified in writing by the Director, a publicly available Annual Environmental Review for the activity must be submitted to the Director each year within three months of the end of the reporting period. Without limitation, each Annual Environmental Review must include the following information:
 - 1.1 a statement by the General Manager, Chief Executive Officer or equivalent for the activity acknowledging the contents of the Annual Environmental Review;

- 1.2 subject to the Personal Information Protection Act 2004, a list of all complaints received from the public during the reporting period concerning actual or potential environmental harm caused by the activity and a description of any actions taken as a result of those complaints;
- 1.3 details of environment-related procedural or process changes that have been implemented during the reporting period;
- 1.4 a summary of the amounts (tonnes) of solid wastes produced and treatment methods implemented during the reporting period. Initiatives or programs planned to avoid, minimise, re-use, or recycle such wastes over the next reporting period should be detailed;
- 1.5 details of all non-trivial environmental incidents and/or incidents of non compliance with permit or environment protection notice conditions that occurred during the reporting period, and any mitigative or preventative actions that have resulted from such incidents;
- 1.6 a summary of the monitoring data and record keeping required by these conditions. This information should be presented in graphical form where possible, including comparison with the results of at least the preceding reporting period. Special causes and system changes that have impacted on the parameters monitored must be noted. Explanation of significant deviations between actual results and any predictions made in previous reports must be provided;
- 1.7 identification of breaches of limits specified in these conditions and significant variations from predicted results contained in any relevant DPEMP or EMP, an explanation of why each identified breach of specified limits or variation from predictions occurred and details of the actions taken in response to each identified breach of limits or variance from predictions;
- 1.8 a list of any issues, not discussed elsewhere in the report, that must be addressed to improve compliance with these conditions, and the actions that are proposed to address any such issues, including a review any issues in relation to the waste segregation plan;
- 1.9 a summary of fulfilment of environmental commitments made for the reporting period. This summary must include indication of results of the actions implemented and explanation of any failures to achieve such commitments;
- 1.10 a summary of any community consultation and communication undertaken during the reporting period; and
- 1.11 strategic consideration of potential changes to the activity during the next 12 months that may have potential environmental impacts.

G11 Non-permitted waste types

- 1 The following waste types must not be accepted for disposal on The Land:
 - 1.1 controlled wastes, not listed in these conditions, unless approved by the Director; and
 - 1.2 liquid waste.

Atmospheric

A1 Control of dust emissions

Dust emissions from The Land must be controlled to the extent necessary to prevent environmental nuisance.

Blasting

B1 Blasting - noise and vibration limits

- 1 Blasting on The Land must be carried out in accordance with blasting best practice environmental management (BPEM) principles, and must be carried out such that, when measured at the curtilage of any residence (or other noise sensitive premises) in other occupation or ownership, airblast overpressure and ground vibration comply with the following:
 - 1.1 for 95% of blasts, airblast overpressure must not exceed 115dB (Lin Peak);
 - 1.2 airblast overpressure must not exceed 120dB (Lin Peak);
 - 1.3 for 95% of blasts ground vibration must not exceed 5mm/sec peak particle velocity; and
 - 1.4 ground vibration must not exceed 10mm/sec peak particle velocity.
- 2 All measurements of airblast overpressure and peak particle velocity must be carried out in accordance with the methods set down in *Technical basis for guidelines to minimise annoyance due to blasting overpressure and ground vibration*, Australian and New Zealand Environment Council, September 1990.

B2 Notification of blasting

All residents within a 1 km radius of the activity must be notified on each occasion prior to blasting on The Land. This notification must be given at least 24 hours before such blasting is due to occur. In the event that the blast(s) cannot take place at the time specified, the responsible person must advise all those residents within 1 km of the activity of the revised time at which blasting will take place.

Construction

CN1 Construction Environmental Management Plan

- 1 At least 30 days prior to the commencement of construction activities, or by a date otherwise specified in writing by the Director, a Construction Environmental Management Plan ('Construction EMP') prepared to the satisfaction of the Director must be submitted to the Director.
- 2 The Construction EMP must contain a detailed description of the proposed timing and sequence of the major construction activities and of the proposed management measures to be implemented to avoid or minimise the environmental impacts during the construction phase. The Construction EMP must include, but not necessarily be limited to, management measures in relation to the following:
 - 2.1 prevention of impacts upon surface water and waterways;
 - 2.2 erosion and sediment control;
 - 2.3 noise control;
 - 2.4 dust control;
 - 2.5 management of environmentally hazardous materials;
 - 2.6 cultural (Aboriginal and non-aboriginal) heritage considerations;
 - 2.7 flora and fauna management;
 - 2.8 weed, pest and disease management;
 - 2.9 quality control arrangements including supervision by appropriately qualified and experienced persons, detailed construction specifications for key items of environmental management infrastructure, documented site procedures, quality control testing and the keeping of appropriate records; and

2.10 acid sulphate soil management (if identified in pre construction testing).

- 3 Unless otherwise specified in writing by the Director, construction activities must be carried out in accordance with the Construction EMP.

CN2 Cell liner construction plan

- 1 Prior to the construction of the cell liner, a cell liner construction plan (CLCP) must be submitted to the Director.
- 2 The CLCP must contain;
 - 2.1 a detailed description of the proposed construction method and materials, including the groundwater relief system;
 - 2.2 quality assurance/quality control measures to be used in relation to methods and materials;
 - 2.3 a report detailing the geotechnical conditions, including geological stability, relevant to the Cell, with particular attention to the existing fault;
 - 2.4 a report from a suitably qualified person, who has peer reviewed the CLCP.
- 3 The peer reviewer referred to above must be suitable to the Director.
- 4 Unless otherwise specified in writing by the Director, construction activities must be carried out in accordance with the CLCP.

CN3 Post construction report

- 1 Prior to any waste material being deposited within the Cell, a post construction report must be submitted to the Director.
- 2 The report must contain;
 - 2.1 a statement from a suitably qualified person that the Cell has been constructed in accordance with the cell liner construction plan.

Decommissioning And Rehabilitation

DC1 Notification of cessation

Within 30 days of becoming aware of any event or decision which is likely to give rise to the permanent cessation of the activity, the person responsible for the activity must notify the Director in writing of that event or decision. The notice must specify the date upon which the activity is expected to cease or has ceased.

DC2 Decommissioning and Rehabilitation Plan

- 1 At least 12 months prior to the planned cessation of waste deposition or by a date specified in writing by the Director a Decommissioning and Rehabilitation Plan for the activity must be prepared in accordance with the Acceptable Standards provisions of Section 5 of the *Landfill Sustainability Guide* and must specify, without limitation, the following:
 - 1.1 the closure date;
 - 1.2 redundant site structures and equipment to be removed;
 - 1.3 details relating to interim cover and final capping;
 - 1.4 details of signs to be erected to inform the public that the site has closed;
 - 1.5 perimeter fences to be installed or maintained and other security measures to be implemented to prevent unauthorised access to waste deposition areas on The Land;
 - 1.6 post-closure management procedures for the leachate collection and containment system;
 - 1.7 post-closure maintenance procedures for stormwater drains and landfill capping;

- 1.8 intended final profile of The Land;
- 1.9 revegetation plans;
- 1.10 proposed post-closure groundwater and surface water monitoring program; and
- 1.11 any other details requested in writing by the Director.

DC3 Rehabilitation upon cessation

- 1 Unless otherwise approved in writing by the Director, following permanent cessation of the activity land disturbed or used in the carrying out of the activity must be rehabilitated in accordance with:
 - 1.1 the measures set out in the Decommissioning and Rehabilitation Plan for The Land approved in writing by the Director; or
 - 1.2 where an approved Decommissioning and Rehabilitation Plan is not available, the Acceptable Standards provisions of Section 5 of the *Landfill Sustainability Guide*.

Effluent Management

EM1 Perimeter drains

- 1 Perimeter cut-off drains must be constructed at strategic locations on The Land to prevent surface run-off from entering the area used or disturbed in carrying out the activity. All reasonable measures must be implemented to ensure that sediment transported along these drains remains on The Land. Such measures may include provision of strategically located sediment fences, appropriately sized and maintained sediment settling ponds, vegetated swales, detention basins and other measures designed and operated in accordance with the principles of Water Sensitive Urban Design.
- 2 Drains must have sufficient capacity to contain run-off that could reasonably be expected to arise during a 1 in 20 year rainfall event. Maintenance activities must be undertaken regularly to ensure that this capacity does not diminish.

EM2 Stormwater

- 1 Polluted stormwater that will be discharged from The Land must be collected and treated prior to discharge to the extent necessary to prevent serious or material environmental harm, or environmental nuisance.
- 2 Notwithstanding the above, all stormwater that is discharged from The Land must not carry pollutants such as sediment, oil and grease in quantities or concentrations that are likely to degrade the visual quality of any receiving waters outside the Land.
- 3 All reasonable measures must be implemented to ensure that solids entrained in stormwater are retained on The Land. Such measures may include appropriately sized and maintained sediment settling ponds or detention basins.
- 4 Stormwater discharged in accordance with this condition must not be directed to sewer without the approval of the operator of the sewerage system.

EM3 Fire fighting wastewater

In the event of a fire, potentially contaminated wastewater arising from fire fighting must be treated on The Land to the satisfaction of the Director or removed from the site by a person holding all necessary approvals for such transport.

EM4 Stormwater to be excluded

Stormwater must be prevented as far as practicable from mixing with deposited waste.

EM5 Stormwater

- 1 Polluted stormwater that will be discharged from The Land must be collected and treated prior to discharge to the extent necessary to prevent serious or material environmental harm, or environmental nuisance.
- 2 Notwithstanding the above, all stormwater that is discharged from The Land must not carry pollutants such as sediment, oil and grease in quantities or concentrations that are likely to degrade the visual quality of any receiving waters outside the Land.
- 3 All reasonable measures must be implemented to ensure that solids entrained in stormwater are retained on The Land. Such measures may include appropriately sized and maintained sediment settling ponds or detention basins.

EM6 Leachate management plan

- 1 Unless otherwise approved in writing by the Director, prior to the construction of the leachate management system, a leachate management plan (LMP) must be submitted to the Director.
- 2 The LMP must contain;
 - 2.1 details regarding monitoring the efficiency of the leachate collection network and contingencies in the event that the network is not functioning appropriately;
 - 2.2 details regarding the proposed location and operation of the leachate treatment plant;
 - 2.3 the proposed sampling point to collect leachate prior to the leachate treatment plant;
 - 2.4 the proposed location, construction methods and size of the evaporation ponds;
 - 2.5 contingency plans in the event that passive evaporation is insufficient to manage leachate volumes;
 - 2.6 Strategies for managing high rainfall events, especially if they are to occur during periods when the waste depot is unattended; and
 - 2.7 details regarding monitoring volumes of leachate in the evaporation ponds.
- 3 The approved plan, as amended from time to time with the approval of the Director, must be implemented to the satisfaction of the Director.

Fire Management**FM1 Fire Management and Operations Plan**

- 1 A Fire Management and Operations Plan (the Plan) must be developed in accordance with the requirements of the Regional Chief, Tasmania Fire Service, Southern Region. The plan must be submitted to the Regional Chief, Tasmania Fire Service, Southern Region within 60 days of these conditions taking effect. The Director must be provided with a copy of the plan, and the Tasmania Fire Service approval.
- 2 The activity must be undertaken in accordance with the plan which has been approved in writing by the TFS and any amendment to the plan approved by the Tasmania Fire Service

Hazardous Substances**H1 Storage and handling of hazardous materials**

Unless otherwise approved in writing by the Director, environmentally hazardous material held on The Land, including chemicals, fuels and oils, must be located within impervious bunded areas or spill trays which are designed to contain at least 110% of the total volume of material.

H2 Spill kits

Spill kits appropriate for the types and volumes of materials handled on The Land must be kept in appropriate locations to assist with the containment of spilt environmentally hazardous materials.

Monitoring**M1 Dealing with samples obtained for monitoring**

- 1 Any sample or measurement required to be obtained under these conditions must be taken and processed in accordance with the following:
 - 1.1 Australian Standards, NATA approved methods, the American Public Health Association Standard Methods for the Analysis of Water and Waste Water or other standard(s) approved in writing by the Director;
 - 1.2 samples must be tested in a laboratory accredited by the National Association of Testing Authorities (NATA), or a laboratory approved in writing by the Director, for the specified test;
 - 1.3 results of measurements and analysis of samples and details of methods employed in taking measurements and samples must be retained for at least three years after the date of collection; and
 - 1.4 noise measurements must be undertaken in accordance with the Tasmanian Noise Measurement Procedures Manual.

M2 Reporting of waste tonnage

- 1 The person responsible must submit to the Director a report on the quantity of waste (measured as tonnes) disposed of at the landfill during each financial year. The report must be submitted by 30 September each year and must, as a minimum, contain details of:
 - 1.1 the total quantity of waste disposed of in each category at the facility, measured as tonnes using a methodology approved by the Director; and
 - 1.2 the methodology by which the quantity disposed of has been calculated.

M3 Monitoring of leachate and groundwater

- 1 Unless otherwise approved in writing by the Director, monitoring must be carried out at the following points:
 - 1.1 the approved leachate monitoring collection point, and the approved groundwater monitoring bores;
- 2 Unless otherwise specified in writing by the Director, monitoring and the frequency of monitoring, must be undertaken in accordance with the requirements of Attachment 3.
- 3 Unless otherwise approved in writing by the Director, the results of laboratory analysis of samples collected in the course of monitoring must be submitted to the Director within 21 days of completion of those analyses by the laboratory.

M4 Liner integrity monitoring plan

- 1 Prior to any waste material being deposited within the Cell, a liner integrity management plan must be submitted to the Director.
- 2 The plan must contain;
 - 2.1 details of the timing and methods of monitoring the liner integrity; and
 - 2.2 details of contingency plans for a failure of liner integrity.
- 3 Unless otherwise specified in writing by the Director, monitoring must be carried out in accordance with the liner integrity management plan

M5 Groundwater Monitoring Plan

- 1 Unless otherwise approved in writing by the Director, a groundwater monitoring plan must be submitted to the Director for approval within 12 months of this notice being issued. The groundwater monitoring plan must be in a format approved by the Director and must include, without limitation, the following
 - 1.1 A monitoring program including the frequency and parameters to be sampled;
 - 1.2 A sampling bore location map, and
 - 1.3 An implementation timetable with a commencement date.
- 2 The approved plan, as amended from time to time with the approval of the Director, must be implemented to the satisfaction of the Director.

M6 Witness sump monitoring

- 1 Unless otherwise approved in writing by the Director, the witness sump must be visually monitored for the presence of liquid on a weekly basis.
- 2 A log must be kept detailing;
 - 2.1 The date and time of inspection;
 - 2.2 The name and signature of the person carrying out the inspection; and
 - 2.3 The results of the inspection.
- 3 The log must be retained for a minimum of three years and presented to an Authorised Officer on request.
- 4 In the event that liquid is observed;
 - 4.1 The Director must be notified within 24 hours;
 - 4.2 Unless otherwise approved in writing by the Director, a sample of the liquid must be collected and analysed for all the parameters in Attachment 3; and
 - 4.3 The Director must be notified of the results within 24 hours of the receipt of the analyses.

Operations**OP1 Site staff**

While The Land is open for reception of waste, The Land must be attended by a person or persons whose duties must include supervising the management of waste deposition and ensuring compliance with these conditions.

OP2 Site security

Unless otherwise approved by the Director a 2.4-metre high security fence must be constructed and maintained around areas that are actively being used for waste deposition.

OP3 Waste cover

- 1 Machinery capable of spreading, compacting and covering deposited waste must be kept on The Land at all times. A person competent in operating the machinery must be available for an adequate period of time to spread, compact and cover all waste deposited on a daily basis.
- 2 Waste must be covered at the end of each day of operation. Clean material to a depth of 300 mm must be used for daily cover material unless otherwise approved by the Director.

- 3 The area of exposed waste without intermediate cover must not exceed 7,000 m². Intermediate cover comprised of low permeability (hydraulic conductivity 1×10^{-7} m/s unless otherwise approved by the Director) materials must be applied to a depth of 300 mm to areas in excess of 7,000 m² except where further waste deposition or final capping material will be applied within 90 days.
- 4 Daily cover and intermediate cover may be provided simultaneously by a single 300mm layer.

OP4 Fire management

- 1 Fire control measures on The Land must be to the satisfaction of the Tasmania Fire Service (TFS). Correspondence from the TFS indicating the suitability of fire control measures must be submitted to the Director within 6 months of the date on which these conditions take effect.
- 2 Any fire occurring on The Land must be immediately reported to the Director.
- 3 Fires occurring on The Land must be extinguished as soon as possible using all practical means available.
- 4 The lighting of fires on The Land is not permitted.
- 5 The person responsible must make all reasonable efforts to prevent unauthorised ignition of green waste stockpiles.

OP5 Weed management

A management plan must be developed to prevent the spread of weeds to areas immediately adjacent to the landfill site and must be implemented to the satisfaction of the Director.

OP6 Operational Procedures Manual

- 1 An Operational Procedures Manual ('the Manual') must be developed prior to commencement of the operation. The Manual must provide detailed information relating to the activity and must detail operational procedures as required to ensure compliance with these conditions.
- 2 The person responsible must take all reasonable and practicable measures to ensure that personnel, including contractors, carry out their duties in accordance with the manual.

OP7 Fire management plan

- 1 A Fire Management Plan must be developed in accordance with the requirements of Tasmania Fire Service. The plan must be submitted to Tasmania Fire Service within four months of the date on which these conditions take effect. The Director must be provided with a copy of the plan and Tasmania Fire Services' approval of the plan.
- 2 The activity must be undertaken in accordance with the plan which has been approved in writing by the Tasmania Fire Service and any amendment to the plan approved in writing by the Tasmania Fire Service.

OP8 Operational Procedures Manual

- 1 An Operational Procedures Manual ('the Manual') must be developed before operation. The Manual must provide detailed information relating to the activity and must detail operational procedures as required to ensure compliance with these conditions.
- 2 The person responsible must take all reasonable and practicable measures to ensure that personnel, including contractors, carry out their duties in accordance with the manual.

Waste Management**WM1 Waste segregation plan**

- 1 At least 60 days prior to the first deposition of wastes into the Category C Cell, a waste segregation plan (WSP) must be submitted to the Director.
- 2 The WSP must contain a procedure for ensuring that wastes are suitable for disposal within the Cell;
- 3 The procedure must include;
 - 3.1 strategies for assessing the compatibility of wastes to minimise the potential for adverse reactions; and
 - 3.2 the procedure for logging the position of all wastes deposited in to the Cell.
- 4 Unless otherwise specified in writing by the Director, operations must be carried out in accordance with the WSP.
- 5 In the event that any issues are raised in the annual review the WSP will be reviewed to address the issues raised.

Schedule 3: Information

Legal Obligations

LO1 Notification of incidents under section 32 of EMPCA

- 1 A person responsible for an activity that is not a level 2 activity or a level 3 activity must notify the relevant Council, as soon as reasonably practicable but not later than 24 hours, after becoming aware of the release of a pollutant occurring as the result of any incident in relation to that activity, including an emergency, accident or malfunction, if this release causes or may cause an environmental nuisance.
- 2 A person responsible for an activity that is a level 2 activity or a level 3 activity must notify the Director, as soon as reasonably practicable but not later than 24 hours, after becoming aware of the release of a pollutant occurring as a result of any incident in relation to that activity, including an emergency, accident or malfunction, if this release causes or may cause an environmental nuisance.
- 3 A person responsible for an environmentally relevant activity must notify the Director, as soon as reasonably practicable but not later than 24 hours, after becoming aware of the release of a pollutant occurring as a result of any incident in relation to that activity, including an emergency, accident or malfunction, if this release causes or may cause serious or material environmental harm.
- 4 The Director can be notified by telephoning 1800 005 171 (a 24-hour emergency telephone number).
- 5 Follow up reports can be emailed.
- 6 Any notification given by a person in compliance with this section is not admissible in evidence against the person in proceedings for an offence or for the imposition of a penalty (other than proceedings in respect of the making of a false or misleading statement).
- 7 A person is required to notify the relevant Council or the Director of an incident despite the fact that to do so might incriminate the person or make the person liable to a penalty.
- 8 Any notification referred to in subsection (1), (2) or (3) must include details of the incident, its nature, the circumstances in which it occurred and any action that has been taken to deal with it.
- 9 For the purposes of subsections (1), (2) and (3):
 - 9.1 a person is not required to notify the relevant Council of an incident if the person has reasonable grounds for believing that the incident has already come to the notice of the Council
 - 9.2 a person is not required to notify the Director of an incident if the person has reasonable grounds for believing that the incident has already come to the notice of the Director;

LO2 EMPCA

The activity must be conducted in accordance with the requirements of the *Environmental Management and Pollution Control Act 1994* and Regulations thereunder. The conditions of this document must not be construed as an exemption from any of those requirements.

LO3 Storage and handling of Dangerous Goods and Dangerous Substances

- 1 The storage, handling and transport of dangerous goods and dangerous substances must comply with the requirements of relevant State Acts and any regulations thereunder, including:

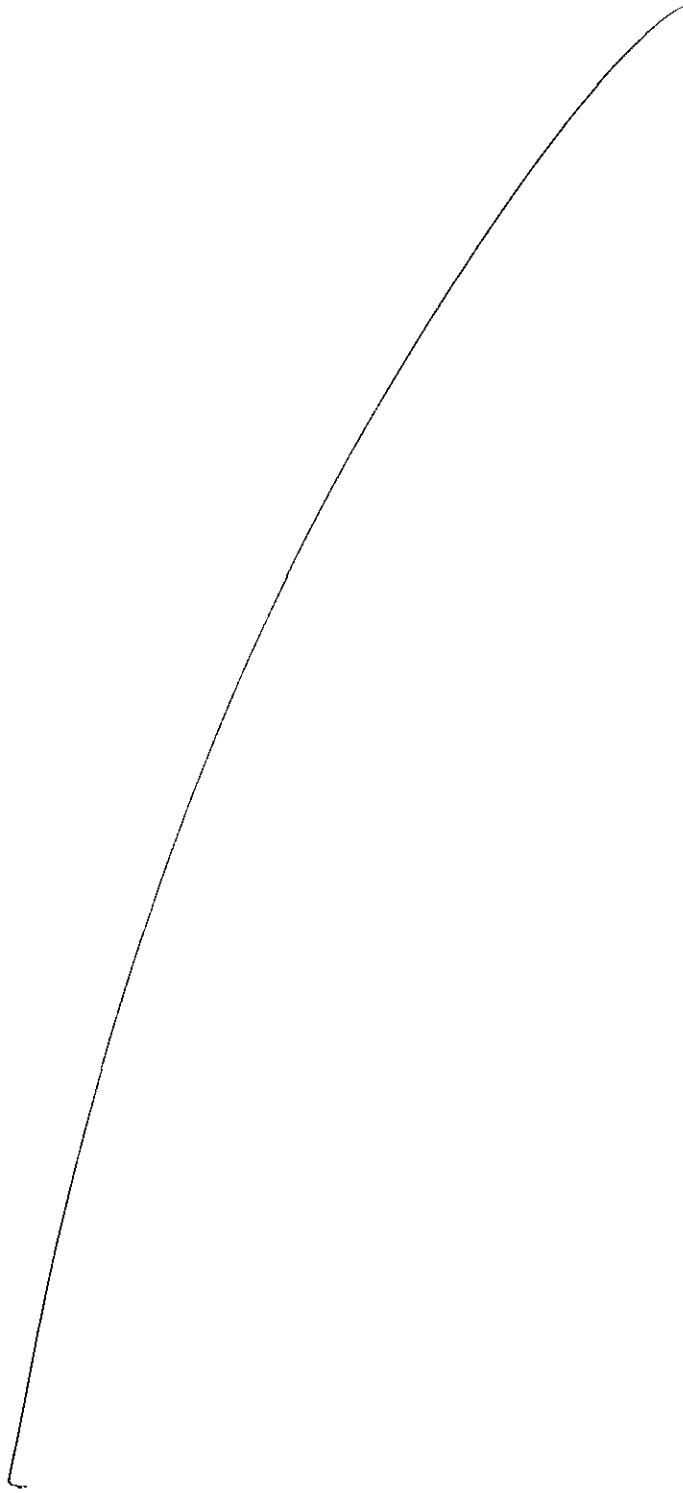
- 1.1 *Dangerous Goods (Road and Rail Transport) Act 2010;*
- 1.2 *Dangerous Goods (Road and Rail Transport) Regulations 2010;*
- 1.3 *Dangerous Substances (Safe Handling) Act 2005;*
- 1.4 *Dangerous Substances (Safe Handling) Regulations 2009;*
- 1.5 *Workplace Health and Safety Act 1995;* and
- 1.6 *Workplace Health and Safety Regulations 1998.*

LO4 Aboriginal relics requirements

- 1 The *Aboriginal Relics Act 1975*, provides legislative protection to Aboriginal heritage sites in Tasmania regardless of site type, condition, size or land tenure. Section 14(1) of the Act states that; Except as otherwise provided in this Act, no person shall, otherwise than in accordance with the terms of a permit granted by the Minister on the recommendation of the Director:
 - 1.1 destroy, damage, deface, conceal or otherwise interfere with a relic;
 - 1.2 make a copy or replica of a carving or engraving that is a relic by rubbing, tracing, casting or other means that involve direct contact with the carving or engraving;
 - 1.3 remove a relic from the place where it is found or abandoned;
 - 1.4 sell or offer or expose for sale, exchange, or otherwise dispose of a relic or any other object that so nearly resembles a relic as to be likely to deceive or be capable of being mistaken for a relic;
 - 1.5 take a relic, or permit a relic to be taken, out of this State; or
 - 1.6 cause an excavation to be made or any other work to be carried out on Crown land for the purpose of searching for a relic.
- 2 If a relic is suspected and/or identified during works then works must cease immediately and the Tasmanian Aboriginal Land and Sea Council and the Aboriginal Heritage Office be contacted for advice before work can continue. In the event that damage to an Aboriginal heritage site is unavoidable a permit under section 14 of the *Aboriginal Relics Act 1975* must be applied for. The Minister may refuse an application for a permit, where the characteristics of the relics are considered to warrant their preservation.
- 3 Anyone finding an Aboriginal relic is required under section 10 of the Act to report that finding as soon as practicable to the Director of National Parks and Wildlife or an authorized officer under the *Aboriginal Relics Act 1975*. It is sufficient to report the finding of a relic to Aboriginal Heritage Tasmania to fulfil the requirements of section 10 of the Act.

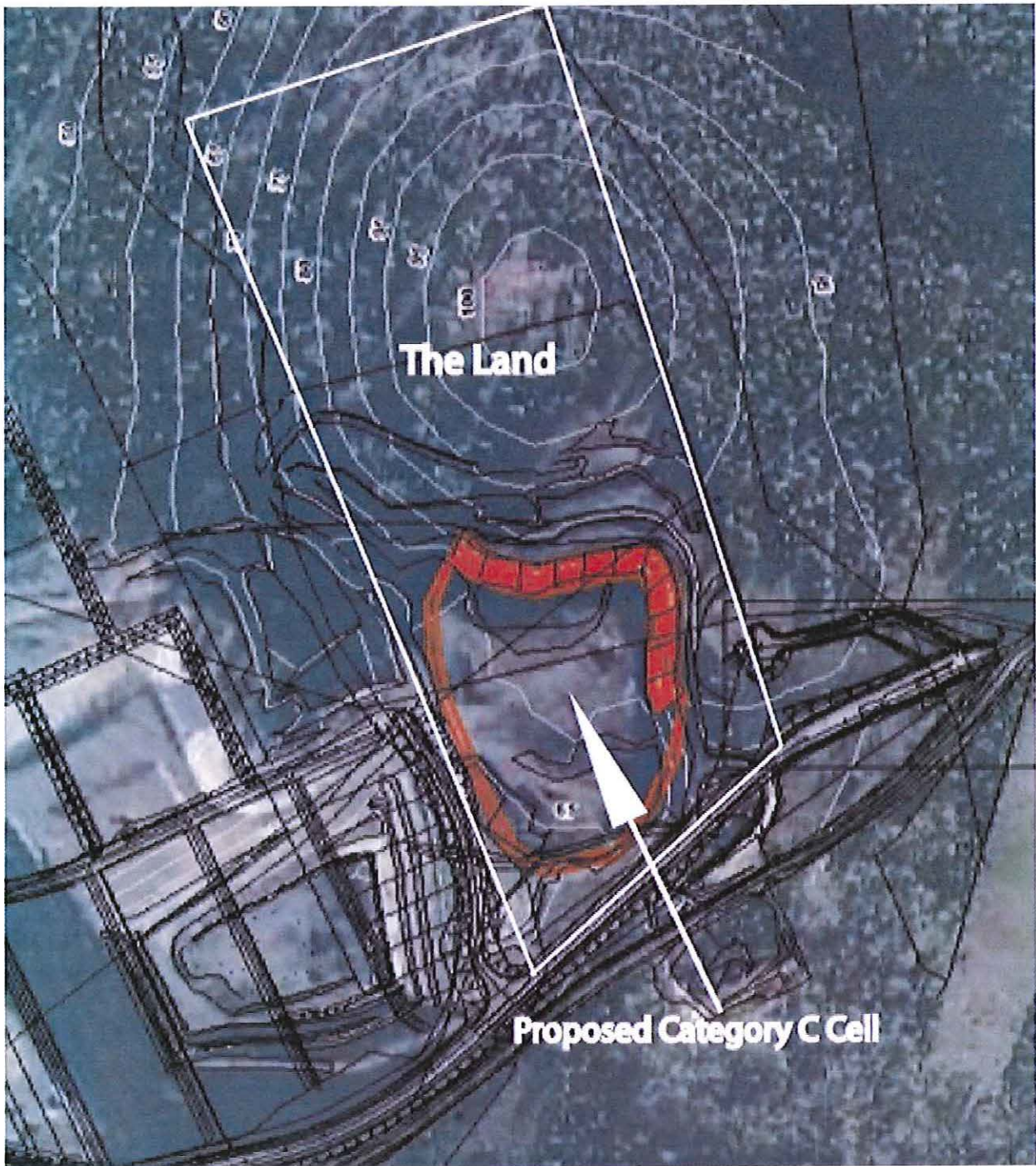
LO5 Change of responsibility

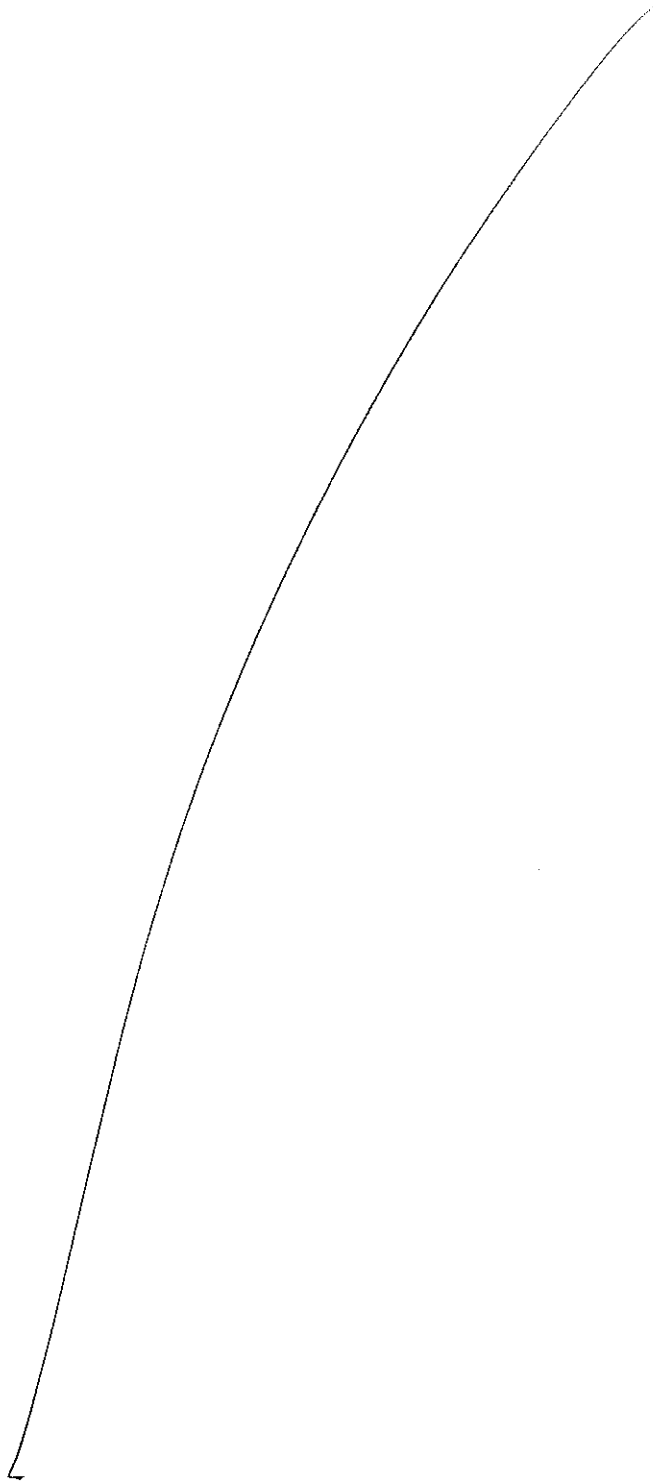
If the person who is or was responsible for the activity ceases to be responsible for the activity, they must notify the Director in accordance with Section 45 of the EMPCA.



9

Attachment 1: The Land





②

ATTACHMENT 2

COMMITMENTS (From Section 6 of the DPEMP)

Commitment 1 Following project approval, a detailed design of the cell will be prepared and submitted to the Director EPA and construction of the cell will not commence until that design has been approved by the Director.

Commitment 2 The detailed design will satisfy the requirements of the Landfill Sustainability Guide 2004.

Commitment 3 There will be no temporary storage of controlled waste at the landfill. Controlled waste delivered to the landfill will be unloaded directly into the C-Cell.

Commitment 4 The C-cell will be constructed inside the existing quarry and will be lined with a composite liner to collect and manage leachate.

Commitment 5 The composite liner will include a primary HDPE leachate barrier underlain by a geosynthetic clay liner which in turn is underlain by a secondary HDPE barrier and then a 1m compacted clay layer. The primary HDPE barrier will be overlain by a dedicated leachate collection network and the secondary barrier will be overlain by a witness leachate collection layer.

Commitment 6 Deposited waste will be covered at the end of the deposition day with soil or a retractable geotextile. The choice between the two will depend on a cost-benefit analysis of the frequency of waste deposition and loss of storage space versus the cost and practicality of the geotextile.

Commitment 7 A Construction Quality Assurance Plan will be prepared following detailed design of the C-cell. The Plan will be submitted for approval to the Director of the EPA together with the detailed engineering design of the cell. Construction will not commence until the Plan has been approved by the Director.


Commitment 8 An appropriately qualified and experienced engineer will supervise liner installation and quality control. A technical expert will be present during the entire liner construction process.

Commitment 9 If blasting is to be used to construct the C-cell, a Blast Management Plan will be prepared and submitted to the Director EPA before construction commences. The Plan will meet the relevant overpressure and ground vibration limits specified by AS2187.2 and also will protect adjoin and nearby waste cells from damage. Blasting will not commence until the Plan has been approved by the Director

Commitment 10 If blasting is determined to pose a significant risk to nearby landfill infrastructure, particularly the existing landfill cells, rock-fracturing using expanding gas or resin cartridges will be used instead.

Commitment 11 All collected leachate will be pumped to a leachate treatment plant.

Commitment 12 The selection of the leachate treatment plant will not be confirmed until the type and specifications of the plant have been confirmed to be satisfactory by the Director EPA.

 7 JUN 2012

Commitment 13 Sludge from the leachate treatment plant will be returned to the C-cell and supernatant will be sent to a leachate evaporation system.

Commitment 14 The leachate evaporation system will comprise passive evaporation ponds and an active evaporator unit anticipated to be powered either directly by landfill gas or indirectly by electricity generated from landfill gas.

Commitment 15 The leachate evaporation pond(s) will be lined with an HDPE liner over a compacted landfill base and will have a freeboard of at least 1m and will be constructed to be secure against flooding from a 1 in 100 year storm event.

Commitment 16 The siting and design of the leachate ponds and evaporator system will be determined as part of detailed engineering design and plans will be submitted to the EPA for approval prior to construction work commencing.

Commitment 17 Leachate may be used to suppress dust inside the C-cell if dry or windy conditions are anticipated.

Commitment 18 There will be no requirement for discharge of leachate, treated or otherwise, to the environment.

Commitment 19 Surface water will be diverted away from the C-cell by cut-off drains designed to handle a 1:50 year rainfall event of 24 hours duration.

Commitment 20 Two new groundwater monitoring bores will be installed to supplement the landfill's existing monitoring bores, one uphill of the cell and one downslope.

Commitment 21 The design of the C-cell will include the installation of groundwater relief system to enable a lowering of groundwater underneath the cell liner to avoid hydrostatic pressure build up that might distort the liner. Any pumped out groundwater will be discharged to the landfill's existing stormwater system.

Commitment 22 Reactive wastes will be separated by the placement of intervening non- reactive wastes.


Commitment 23 The Wastes of similar types will, to the extent practicable, be co-located into discrete locations within the cell, and vertical and horizontal coordinates of these locations will be recorded and stored on a 3-dimensional computer database.

Commitment 24 An internal safety fence will be constructed around the leachate treatment system, including the evaporation ponds. The fence will be designed to prevent uncontrolled vehicular and foot access to the area and will meet the requirements of the Landfill Sustainability Guide 2004.

Commitment 25 The landfill will only accept controlled waste by prior agreement with waste generators and transported to the site by controlled waste transporter registered by the EPA in accordance with relevant controlled waste regulations.


Commitment 26 On cell closure, the C-cell will be capped by a composite liner that includes an LDPE geomembrane and a drainage layer.

Commitment 27 On landfill closure, Southern Waste Solutions will, in consultation with Sorell Council, establish a trust fund or similar to fund the ongoing maintenance of the C-cell cap and its vegetation.

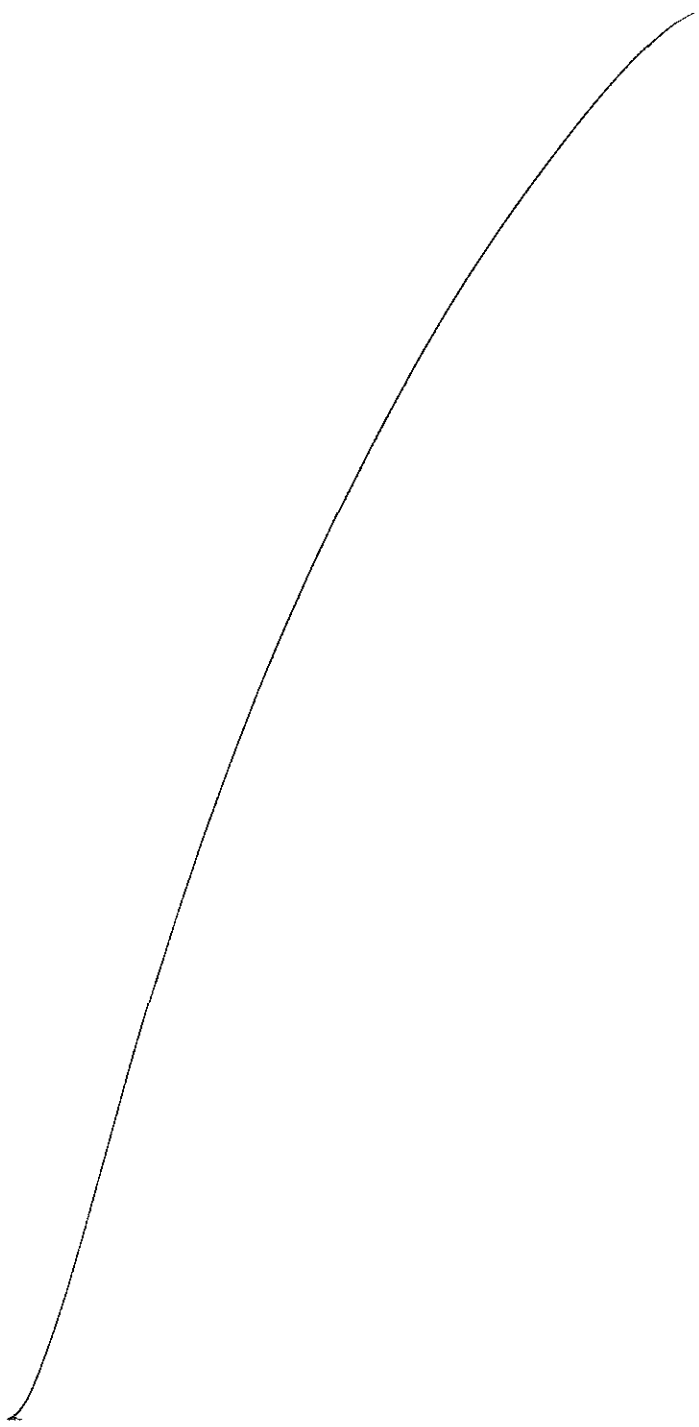
 7 JUN 2012

Attachment 3: Groundwater and leachate monitoring requirements

	Column 2	Column 3
	Monitoring parameter	Monitoring Frequency
Group 1	pH	Quarterly
	Conductivity	Quarterly
	TDS	Quarterly
	Redox Potential (Eh)	Quarterly
	Total suspended solids	Quarterly
	Alkalinity (as CaCO ₃)	Quarterly
	Total Nitrogen as N	Quarterly
	Total Kjeldahl Nitrogen as N	Quarterly
	Ammonia as N	Quarterly
	Nitrate as N	Quarterly
	Nitrite as N	Quarterly
	Total Phosphorous as P	Quarterly
	Orthophosphate (reactive) as P	Quarterly
	DOC	Quarterly
	COD	Quarterly
	Total CN as CN	Quarterly
Group 2	Cadmium as Cd	6 monthly
	Chromium as Cr	6 monthly
	Copper as Cu	6 monthly
	Total Iron as Fe	6 monthly
	Lead as Pb	6 monthly
	Manganese as Mn	6 monthly
	Nickel as Ni	6 monthly
	Zinc as Zn	6 monthly
Group 3	Chloride as Cl ⁻	6 monthly
	Sulphur as SO ₄ ⁼	6 monthly
	Magnesium as Mg	6 monthly
	Potassium as K	6 monthly
	Sodium as Na	6 monthly
Group 4	Arsenic (As)	Yearly
	Mercury (Hg)	Yearly
	Selenium (Se)	Yearly
	TPH and BTEX	Yearly
	Polycyclic Aromatic Hydrocarbons (PAH)	Yearly
	Organophosphate pesticides	Yearly
	Organochlorine pesticides	Yearly
	Polychlorinated Biphenyls (PCB)	Yearly



7 JUN 2012



Handwritten signature or initials.