

# Environment Protection Licence



Licence - 10398

Licence Details	
Number:	10398
Anniversary Date:	12-September

Licensee
HI-QUALITY WASTE MANAGEMENT PTY LTD
PO BOX 42
KEMPS CREEK NSW 2171

Premises
MINDA LANDFILL
OALLEN FORD ROAD
WINDELLAMA NSW 2580

Scheduled Activity
Waste Disposal (application to land)

Fee Based Activity	Scale
Waste disposal by application to land	Any annual capacity

Region
Waste & Resources - Waste Management
59-61 Goulburn Street
SYDNEY NSW 2000
Phone: (02) 9995 5000
Fax: (02) 9995 5999
PO Box A290 SYDNEY SOUTH
NSW 1232

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## Information about this licence

### Dictionary

A definition of terms used in the licence can be found in the dictionary at the end of this licence.

### Responsibilities of licensee

Separate to the requirements of this licence, general obligations of licensees are set out in the Protection of the Environment Operations Act 1997 ("the Act") and the Regulations made under the Act. These include obligations to:

- ensure persons associated with you comply with this licence, as set out in section 64 of the Act;
- control the pollution of waters and the pollution of air (see for example sections 120 - 132 of the Act);
- report incidents causing or threatening material environmental harm to the environment, as set out in Part 5.7 of the Act.

### Variation of licence conditions

The licence holder can apply to vary the conditions of this licence. An application form for this purpose is available from the EPA.

The EPA may also vary the conditions of the licence at any time by written notice without an application being made.

Where a licence has been granted in relation to development which was assessed under the Environmental Planning and Assessment Act 1979 in accordance with the procedures applying to integrated development, the EPA may not impose conditions which are inconsistent with the development consent conditions until the licence is first reviewed under Part 3.6 of the Act.

### Duration of licence

This licence will remain in force until the licence is surrendered by the licence holder or until it is suspended or revoked by the EPA or the Minister. A licence may only be surrendered with the written approval of the EPA.

### Licence review

The Act requires that the EPA review your licence at least every 5 years after the issue of the licence, as set out in Part 3.6 and Schedule 5 of the Act. You will receive advance notice of the licence review.

### Fees and annual return to be sent to the EPA

For each licence fee period you must pay:

- an administrative fee; and
- a load-based fee (if applicable).

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The EPA publication “A Guide to Licensing” contains information about how to calculate your licence fees. The licence requires that an Annual Return, comprising a Statement of Compliance and a summary of any monitoring required by the licence (including the recording of complaints), be submitted to the EPA. The Annual Return must be submitted within 60 days after the end of each reporting period. See condition R1 regarding the Annual Return reporting requirements.

Usually the licence fee period is the same as the reporting period.

### Transfer of licence

The licence holder can apply to transfer the licence to another person. An application form for this purpose is available from the EPA.

### Public register and access to monitoring data

Part 9.5 of the Act requires the EPA to keep a public register of details and decisions of the EPA in relation to, for example:

- licence applications;
- licence conditions and variations;
- statements of compliance;
- load based licensing information; and
- load reduction agreements.

Under s320 of the Act application can be made to the EPA for access to monitoring data which has been submitted to the EPA by licensees.

### This licence is issued to:

HI-QUALITY WASTE MANAGEMENT PTY LTD
PO BOX 42
KEMPS CREEK NSW 2171

subject to the conditions which follow.

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## 1 Administrative Conditions

### A1 What the licence authorises and regulates

- A1.1 This licence authorises the carrying out of the scheduled activities listed below at the premises specified in A2. The activities are listed according to their scheduled activity classification, fee-based activity classification and the scale of the operation.

Unless otherwise further restricted by a condition of this licence, the scale at which the activity is carried out must not exceed the maximum scale specified in this condition.

Scheduled Activity	Fee Based Activity	Scale
Waste Disposal (application to land)	Waste disposal by application to land	Any annual capacity

### A2 Premises or plant to which this licence applies

- A2.1 The licence applies to the following premises:

Premises Details
MINDA LANDFILL
OALLEN FORD ROAD
WINDELLAMA
NSW 2580
LOT 2 DP 811821
MINDA AT LOT 2 OF DP 811821 IN THE PARISH OF CULLULLA AT 2622 OALLEN FORD ROAD, WINDELLAMA

### A3 Other activities

- A3.1 This licence applies to all other activities carried on at the premises, including:

Ancillary Activity
Crushing, Grinding or Separating Works
Extractive Industries
Waste Facilities - waste storage, transfer separating or processing

### A4 Information supplied to the EPA

- A4.1 Works and activities must be carried out in accordance with the proposal contained in the licence application, except as expressly provided by a condition of this licence.

In this condition the reference to "the licence application" includes a reference to:

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- a) the applications for any licences (including former pollution control approvals) which this licence replaces under the Protection of the Environment Operations (Savings and Transitional) Regulation 1998; and
- b) the licence information form provided by the licensee to the EPA to assist the EPA in connection with the issuing of this licence.

## A4.2 Information supporting the licence application also includes:

- a) Property Minda via Windellama Mulwaree LGA EIS (Volumes 1 & 2), Hirst Consulting Services Pty Ltd, December 1998, and the additional information supplied to the EPA by facsimile dated 24 March 2000;
- b) Report on Operations Commencement Protocol Minda Quarry Landfill, prepared for Hallinans Haulage Pty Ltd by Douglas Partners – Project 40202 – October 2004;
- c) Report on Operations Commencement Protocol Minda Quarry Landfill, prepared for Hallinans Haulage Pty Ltd by Douglas Partners – Project 40202 – April 2005, including updated Drawings E6 and L1 emailed to the DEC from Douglas Partners on 30 May 2005;
- d) Email from Douglas Partners to the DEC dated 30 May 2005 which included a diagram titled “Hallinans Minda Quarry Landfill Project Site Boundary and Surface Water Flows – 27/5/05”, Drawing No. 10246/5.
- e) Report on Leachate Water Balance Study, Revision 11, prepared by Douglas Partners and dated 15 April 2013.
- f) Stormwater Management Plan - Project 11 151 - November 2011, prepared by Site Plus and revised 28 March 2012.

## A4.3 The following documents are not to be taken as part of the documentation in A4.1, other than those parts specifically referenced in this licence:

- a) Landfill Environmental Management Plan, Revision 4, prepared by Douglas Partners and dated 20 June 2013.
- b) Preliminary Landfill Closure Plan, Revision 5, prepared by Douglas Partners and dated 27 May 2013.
- c) Environmental Management Manual, Version 4, dated June 2013.
- d) Operations Plan - Clay Extraction and Landfill Activities - dated July 2013.

## 2 Discharges to Air and Water and Applications to Land

### P1 Location of monitoring/discharge points and areas

- P1.1 The following points referred to in the table below are identified in this licence for the purposes of monitoring and/or the setting of limits for the emission of pollutants to the air from the point.

<i>Air</i>			
EPA identi- fication no.	Type of Monitoring Point	Type of Discharge Point	Location Description
15	Dust Deposition Monitoring		Dust Deposition Gauge labelled as Dust 1 on Map No. 10246/5 in the Report on Completion of Scheduled Development Works, dated September 2006. E-763690 N-6114019

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16	Dust Deposition Monitoring	Dust Deposition Gauge labelled as Dust 2 on Map No. 10246/5 in the Report on Completion of Scheduled Development Works, dated September 2006. E-763536 N-6113663
17	Dust Deposition Monitoring	Dust Deposition Gauge labelled as Dust 3 on Map No. 10246/5 in the Report on Completion of Scheduled Development Works, dated September 2006. E-763924 N-6113636
18	Dust Deposition Monitoring	Dust Deposition Gauge labelled as Dust 4 on Map No. 10246/5 in the Report on Completion of Scheduled Development Works, dated September 2006. E-764364 N-6114144
19	Landfill Gas Monitoring	Locations on the surface on the landfilled waste (30m x 30m grid). E-763859 N-6113789

P1.2 The following utilisation areas referred to in the table below are identified in this licence for the purposes of the monitoring and/or the setting of limits for any application of solids or liquids to the utilisation area.

P1.3 The following points referred to in the table are identified in this licence for the purposes of the monitoring and/or the setting of limits for discharges of pollutants to water from the point.

## *Water and land*

EPA Identification no.	Type of Monitoring Point	Type of Discharge Point	Location Description
1	Ambient Water Quality Monitoring		Dam C labelled as SW05 on Map No. 10246/5 contained in the Report on Completion of Scheduled Development Works dated September 2006. E-763720 N-6113570
2	Ambient Water Quality Monitoring		Dam A labelled as SW03 on Map No. 10246/5 contained in the Report on Completion of Scheduled Development Works, dated September 2006. E-764239 N-6113933
3	Ambient Water Quality Monitoring		Dam Z labelled as SW01 on Map No. 10246/5 contained in the Report on Completion of Scheduled Development Works, dated September 2006. E-763859 N-6113789
4	Ambient Water Quality Monitoring		Nadgigomar Creek, upstream of premises labelled as SW02 on Map No. 10246/5 contained in the Report on Completion of Scheduled Development Works, dated September 2006. E-763753 N-6113494



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5	Ambient Water Quality Monitoring	Nadgigomar Creek, downstream of premises labelled as SW04 on Map No. 10246/5 contained in the Report on Completion of Scheduled Development Work, dated September 2006. E-764331 N-6113998
6	Leachate Monitoring	Leachate Sump in Cell 1 as shown on Map No. 10246/5 contained in the Report of Completion of Scheduled Development Work, dated September 2006. E-763859 N-6113789
7	Groundwater Quality Monitoring	Groundwater bore labelled as GW01 on Map No. 10246/5 in the Report on Completion of Scheduled Development Works, dated September 2006. E-763830 N-6113901
8	Groundwater Quality Monitoring	Groundwater bore labelled as GW02 on Map No. 10246/5 in the Report on Completion of Scheduled Development Works, dated September 2006. E-763852 N-6113725
9	Groundwater Quality Monitoring	Groundwater bore labelled as GW03 on Map No. 10246/5 contained in the Report on Completion of Scheduled Development Works, dated September 2006. E-763667 N-6113986
10	Groundwater Quality Monitoring	Groundwater bore labelled as GW04 on Map No. 10246/5 in the Report of Completion of Scheduled Development Works, dated September 2006. E-763511 N-6113680
11	Groundwater Quality Monitoring	Groundwater bore labelled as GW05 on Map No. 10246/5 in the Report on Completion of Scheduled Development Works, dated September 2006. E-763757 N-6113593
12	Groundwater Quality Monitoring	Groundwater bore labelled as GW06 on Map No. 10246/5 in the Report on Completion of Scheduled Development Works, dated September 2006. E-764263 N-6113821

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13	Groundwater Quality Monitoring	Groundwater bore labelled as GW07 on Map No. 10246/5 in the Report on Completion of Scheduled Development Works, dated September 2006. E-764113 N-6114001
14	Groundwater Quality Monitoring	Groundwater bore labelled as GW08 on Map No. 10246/5 in the Report on Completion of Scheduled Development Works, dated September 2006. E-763857 N-6114196

## 3 Limit Conditions

### L1 Pollution of waters

- L1.1 Except as may be expressly provided in any other condition of this licence, the licensee must comply with section 120 of the Protection of the Environment Operations Act 1997.
- L1.2 There must be no discharge of stormwater from rehabilitation areas to waters, unless more than 104mm of rain falls on the premises within a 24 hour time period (1:10 year, 24 hour duration, average recurrence interval).
- L1.3 There must be no discharge of stormwater from landfill cells to waters, unless more than 155mm of rain falls on the premises within a 24 hour time period (1 in 100 year, 24 hour duration, average recurrence interval).
- L1.4 There must be no discharge of leachate to waters.
- L1.5 The licensee must ensure that the level of leachate on the base of the leachate barrier system in any of the waste disposal cells does not rise above 300mm, unless the leachate storage pond(s) have a freeboard of less than or equal to 0.75m.
- L1.6 All landfill cells must be constructed and operated to ensure that the groundwater gradient is in the direction of the landfill cells.

### L2 Waste

- L2.1 The licensee must not cause, permit or allow any waste to be received at the premises, except the wastes expressly referred to in the column titled "Waste" and meeting the definition, if any, in the column titled "Description" in the table below.  
Any waste received at the premises must only be used for the activities referred to in relation to that waste in the column titled "Activity" in the table below.  
Any waste received at the premises is subject to those limits or conditions, if any, referred to in relation to that waste contained in the column titled "Other Limits" in the table below.  
This condition does not limit any other conditions in this licence.

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Code	Waste	Description	Activity	Other Limits
NA	General solid waste (non-putrescible)		Waste disposal (application to land)	No more than 60,000 tonnes of waste, in total, may be received per annum.
NA	Asbestos waste		Waste disposal (application to land)	No more than 60,000 tonnes of waste, in total, may be received per annum.
NA	Waste tyres		Waste disposal (application to land)	No more than 60,000 tonnes of waste, in total, may be received per annum.
NA	Waste	Any waste received onsite that is below licensing thresholds in Schedule 1 of the POEO Act, as in force from time to time.		N/A

L2.2 The licensee must not cause, permit or allow any waste to be received at the premises, except the wastes expressly referred to in the column titled "Waste" and meeting the definition, if any, in the column titled "Description" in the table below.

Any waste received at the premises must only be used for the activities referred to in relation to that waste in the column titled "Activity" in the table below.

Any waste received at the premises is subject to those limits or conditions, if any, referred to in relation to that waste contained in the column titled "Other Limits" in the table below.

Condition L2.1 does not limit any other conditions in this licence.

L2.3 The total volume of waste received at the premises over the life of the operation must not exceed 1,947,003 cubic metres.

L2.4 The licensee must not dispose of any tyres on the premises which;

- a) have a diameter of less than 1.2 metres; and
- b) are delivered at the premises in a load containing more than 5 whole tyres; and
- c) became waste in the Sydney Metropolitan Area;

unless the tyres are shredded into pieces which measure no more than 250mm in any direction or the walls in the tyres are removed prior to disposal.

L2.5 Unless the EPA amends this licence to expressly permit it, the licensee must only dispose of waste at the premises in Cell 1 and Cell 2Aa, as depicted in the document titled "Revised Cell 2A Layout, Minda Landfill" prepared by Douglas Partners and dated 19 June 2009 (EPA reference DOC15/294013).

## L3 Noise limits

L3.1 The Licensee must ensure that the noise emissions from activities associated with the extraction

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operation and landfilling do not exceed 35 dBA ((LA10 (15 minute))at the noise monitoring sites nominated in Figure E3 prepared by Renzo Tonin and Associates Pty Ltd in Environmental Impact Statement Volume 1 Main Report titled Property "Minda" via Windellama, Mulwaree LGA Proposed Reclamation of Clay Extraction Area by Landfill, Processing of Paper/Pulp and Concrete Recycling Project.

- L3.2 The noise emission limits in L3.1 apply for prevailing meteorological conditions (winds up to 3m/s), except under conditions of temperature inversions.
- L3.3 For condition L3.1, the LA10 noise level must be measured or computed at any residential boundary over a period of 15 minutes using "FAST" response on the sound level meter. 5dB(A) must be added to the measured level if the noise is substantially tonal or impulsive in character.

## L4 Hours of operation

- L4.1 All operations are to be carried out between the hours of 7am to 5pm Monday to Friday. No operations, except in emergency or as approved under Condition L4.2, are to be carried out at any other time.

- L4.2 Work may be conducted outside approved hours where

- a) the delivery of material is required outside the specified hours by police or other authorities for safety reasons; and/or
- b) the operation or personnel or equipment are endangered

and prior notification is provided to the EPA and affected residents where possible or within a reasonable period in the case of emergency.

- L4.3 The approved hours may be varied with the written consent of the EPA only where it is satisfied that the amenity of the residents in the locality will not be adversely affected.

## L5 Potentially offensive odour

- L5.1 The licensee must not cause or permit the emission of offensive odour beyond the boundary of the premises.

Note: Section 129 of the Protection of the Environment Operations Act 1997, provides that the licensee must not cause or permit the emission of any offensive odour from the premises but provides a defence if the emission is identified in the relevant environment protection licence as a potentially offensive odour and the odour was emitted in accordance with the conditions of a licence directed at minimising odour.

- L5.2 No condition of this licence identifies a potentially offensive odour for the purposes of Section 129 of the Protection of the Environment Operations Act 1997.

## 4 Operating Conditions

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## **O1 Activities must be carried out in a competent manner**

O1.1 Licensed activities must be carried out in a competent manner.

This includes:

- a) the processing, handling, movement and storage of materials and substances used to carry out the activity; and
- b) the treatment, storage, processing, reprocessing, transport and disposal of waste generated by the activity.

## **O2 Maintenance of plant and equipment**

O2.1 All plant and equipment installed at the premises or used in connection with the licensed activity:

- a) must be maintained in a proper and efficient condition; and
- b) must be operated in a proper and efficient manner.

## **O3 Dust**

O3.1 All operations and activities occurring at the premises must be carried out in a manner that will minimise the emission of dust from the premises.

## **O4 Emergency response**

O4.1 The licensee must have in place and implement procedures to minimise the risk of fire at the premises.

O4.2 The licensee must extinguish fires at the premises as soon as possible.

## **O5 Processes and management**

O5.1 The licensee must take all practicable steps to control entry to the premises.

O5.2 The licensee must install and maintain a stockproof perimeter fence around the premises.

O5.3 The licensee must install and maintain lockable security gates at all access and departure locations.

O5.4 The licensee must ensure that all gates are locked whenever the landfill is unattended.

O5.5 The licensee must implement the litter management program specified in Section 8.2 of the Minda Landfill LEMP prepared by Douglas Partners and dated 20 June 2013.

O5.6 The licensee must control pests, vermin and weeds at the premises in accordance with Section 8.6 of the Minda Landfill LEMP prepared by Douglas Partners and dated 20 June 2013.

O5.7 The licensee must provide a report to the EPA within two months of installing each segment of the wall

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liner and protective geofabric in accordance with Specifications L in the report identified by Condition A4.2 – Report on Operations Commencement Protocol Minda Landfill, prepared for Hallinans Haulage Pty Ltd by Douglas Partners – Project 40202 – April 2005. The report must provide the details of the replacement anchor trench and quality assurance details for joining the liner.

## O6 Waste management

- O6.1 The last licensee must prepare and submit to the EPA within six months prior to the last load of waste being landfilled a closure plan in accordance with section 76 of the Protection of the Environment Operations Act 1997.
- O6.2 A high level alarm and pump interlock system must be installed and be operated on the leachate storage pond(s). The system must be configured such that the alarm system is activated, and any pump transferring leachate to the pond(s) is shutdown when the freeboard in the pond(s) is reduced to less than 0.75 metres.
- O6.3 The licensee must install and have operational on all leachate transfer pipes a leak detection system.
- O6.4 The licensee must only dispose of leachate by evaporation from the leachate pond, irrigation on the active tipping face (provided the tipping face is surrounded by a 300mm high bund) or disposed of off-site at a facility which can lawfully receive it. The active tipping face is that area not covered by daily and/or intermediate cover.
- O6.5 All waters which contact wastes (other than VENM only) are to be managed as leachate.
- O6.6 The overflow from the leachate pond must drain into the quarry void.
- O6.7 The licensee must monitor and record daily the volume of leachate in the leachate dam, including the volume of leachate stored, added, and removed from the leachate dam each day. These records must be kept by the licensee for at least 4 years from when the monitoring is undertaken and made available to the EPA on request.
- O6.8 There must be no incineration or burning of any waste at the premises.
- O6.9 A record must be maintained of all events involving the removal of any waste that was brought to the facility and which is not permitted to be disposed of at the facility.
- O6.10 Cover material must be VENM.
  - a) Daily cover  
Cover material must be applied to a minimum depth of 15 centimetres over all exposed landfilled waste prior to ceasing operations at the end of each day.
  - b) Intermediate cover  
Cover material must be applied to a depth of 30 centimetres over surfaces of the landfilled waste at the premises which are to be exposed for more than 90 days.
  - c) Cover material stockpile  
At least two weeks cover material must be available at the premises under all weather conditions. This material may be won on site, or alternatively a cover stockpile must be maintained adjacent to the tip face.

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- O6.11 The licensee must install 12 x 120mm diameter holes in all caissons (specification R part F in the report identified by Condition A4.2 – Report on Operations Commencement Protocol Minda Landfill, prepared for Hallinans Haulage Pty Ltd by Douglas Partners – Project 40202 – April 2005) used in the riser.
- O6.12 The final contours of the landfill must be in accordance with Figures 5a and 5b of the Preliminary Landfill Closure Plan prepared by Douglas Partners and dated 27 May 2013.
- O6.13 All waste received at the premises that is classified as General Solid Waste (Non-putrescible) must be landfilled on the day of its receipt.
- O6.14 The licensee must provide a report to the EPA which details the design, construction, operation and rehabilitation of any new landfill cell. This report must be submitted to the EPA at least six months before the licensee intends to construct the cell, and it must include details on a QA/QC program which can demonstrate that the cell was constructed to meet its design specifications.
- O6.15 The licensee must submit a Construction Quality Assurance (CQA) report for each new landfill cell. This report must be prepared by a suitably qualified independent consult and be submitted to the EPA within 1 month of the completion of each new landfill cell. The report must be prepared in accordance with all relevant Australian Standards and include:
1. A description of the works undertaken;
  2. Works-as-executed-drawings;
  3. A discussion of the QA/QC activities undertaken;
  4. Results of quality control testing undertaken (including material conformance testing, field seam testing etc.);
  5. Photographs documenting all major stages of construction;
  6. A definitive statement from a suitably qualified engineer confirming that the works were constructed in accordance with the specifications and conditions of this licence.
- O6.16 The Licensee must ensure that the landfill is progressively capped in accordance with Appendix A - Benchmark Technique 28 of the Environmental Guidelines: Solid Waste Landfills (1996) and section 5.1 of the Minda Landfill Preliminary Landfill Closure Plan, Revision 5, prepared by Douglas Partners and dated 27 May 2013.
- O6.17 Cell 2Ab and Cell 2B must be constructed in accordance with the document titled "Report on Design of Landfill Cells 2A and 2B" prepared by Douglas Partners and dated 3 February 2009 and the document titled "Revised Cell 2A Layout, Minda Landfill" prepared by Douglas Partners and dated 19 June 2009 (EPA reference DOC15/294013).

## **O7 Other operating conditions**

- O7.1 The tracking of waste and mud by vehicles departing the premises must be controlled to minimise the impact of these materials outside of the premises.
- O7.2 All vehicles leaving the site must pass through the wheel washer.



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- O7.3 A vehicle wash down facility, which is designed to capture and treat wash water for either beneficial purposes or pumped out by an approved contractor, must be maintained.

## 5 Monitoring and Recording Conditions

### M1 Monitoring records

- M1.1 The results of any monitoring required to be conducted by this licence or a load calculation protocol must be recorded and retained as set out in this condition.
- M1.2 All records required to be kept by this licence must be:
- a) in a legible form, or in a form that can readily be reduced to a legible form;
  - b) kept for at least 4 years after the monitoring or event to which they relate took place; and
  - c) produced in a legible form to any authorised officer of the EPA who asks to see them.
- M1.3 The following records must be kept in respect of any samples required to be collected for the purposes of this licence:
- a) the date(s) on which the sample was taken;
  - b) the time(s) at which the sample was collected;
  - c) the point at which the sample was taken; and
  - d) the name of the person who collected the sample.

### M2 Requirement to monitor concentration of pollutants discharged

- M2.1 For each monitoring/discharge point or utilisation area specified below (by a point number), the licensee must monitor (by sampling and obtaining results by analysis) the concentration of each pollutant specified in Column 1. The licensee must use the sampling method, units of measure, and sample at the frequency, specified opposite in the other columns:

#### M2.2 Air Monitoring Requirements

##### POINT 15,16,17,18

Pollutant	Units of measure	Frequency	Sampling Method
Particulates - Deposited Matter	grams per square metre per month	Quarterly	AM-19

##### POINT 19

Pollutant	Units of measure	Frequency	Sampling Method
Methane	percent by volume	Quarterly	Special Method 1

#### M2.3 Water and/ or Land Monitoring Requirements



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## POINT 1,2,3,4,5

Pollutant	Units of measure	Frequency	Sampling Method
Conductivity	microsiemens per centimetre	Quarterly	Probe
Dissolved Oxygen	milligrams per litre	Quarterly	Probe
Faecal Coliforms	colony forming units per 100 millilitres	Quarterly	Grab sample
Nitrogen (ammonia)	milligrams per litre	Quarterly	Grab sample
pH	pH	Quarterly	Probe
Potassium	milligrams per litre	Quarterly	Grab sample
Redox potential	millivolts	Quarterly	Probe
Total dissolved solids	milligrams per litre	Quarterly	Grab sample
Total organic carbon	milligrams per litre	Quarterly	Grab sample

## POINT 6

Pollutant	Units of measure	Frequency	Sampling Method
Alkalinity (as calcium carbonate)	milligrams per litre	Yearly	Grab sample
Aluminium	milligrams per litre	Yearly	Grab sample
Arsenic	milligrams per litre	Yearly	Grab sample
Barium	milligrams per litre	Yearly	Grab sample
Benzene	milligrams per litre	Yearly	Grab sample
Cadmium	milligrams per litre	Yearly	Grab sample
Calcium	milligrams per litre	Yearly	Grab sample
Chloride	milligrams per litre	Yearly	Grab sample
Chromium (hexavalent)	milligrams per litre	Yearly	Grab sample
Chromium (total)	milligrams per litre	Yearly	Grab sample
Cobalt	milligrams per litre	Yearly	Grab sample
Conductivity	microsiemens per centimetre	Quarterly	Probe
Copper	milligrams per litre	Yearly	Grab sample
Ethyl benzene	milligrams per litre	Yearly	Grab sample
Fluoride	milligrams per litre	Yearly	Grab sample
Lead	milligrams per litre	Yearly	Grab sample
Magnesium	milligrams per litre	Yearly	Grab sample
Manganese	milligrams per litre	Yearly	Grab sample
Mercury	milligrams per litre	Yearly	Grab sample
Nitrate	milligrams per litre	Yearly	Grab sample
Nitrite	milligrams per litre	Yearly	Grab sample
Nitrogen (ammonia)	milligrams per litre	Yearly	Grab sample
Organochlorine pesticides	milligrams per litre	Yearly	Grab sample

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Organophosphate pesticides	milligrams per litre	Yearly	Grab sample
pH	pH	Yearly	Probe
Phosphorus (total)	milligrams per litre	Yearly	Grab sample
Polycyclic aromatic hydrocarbons	milligrams per litre	Yearly	Grab sample
Potassium	milligrams per litre	Yearly	Grab sample
Sodium	milligrams per litre	Yearly	Grab sample
Sulfate	milligrams per litre	Yearly	Grab sample
Toluene	milligrams per litre	Yearly	Grab sample
Total dissolved solids	milligrams per litre	Yearly	Grab sample
Total organic carbon	milligrams per litre	Yearly	Grab sample
Total petroleum hydrocarbons	milligrams per litre	Yearly	Grab sample
Total Phenolics	milligrams per litre	Yearly	Grab sample
Total suspended solids	milligrams per litre	Yearly	Grab sample
Xylene	milligrams per litre	Yearly	Grab sample
Zinc	milligrams per litre	Yearly	Grab sample

## POINT 7,8,9,10,11,12,13,14

Pollutant	Units of measure	Frequency	Sampling Method
Alkalinity (as calcium carbonate)	milligrams per litre	Quarterly	Grab sample
Aluminium	milligrams per litre	Yearly	Grab sample
Arsenic	milligrams per litre	Yearly	Grab sample
Barium	milligrams per litre	Yearly	Grab sample
Benzene	milligrams per litre	Yearly	Grab sample
Cadmium	milligrams per litre	Yearly	Grab sample
Calcium	milligrams per litre	Quarterly	Grab sample
Chloride	milligrams per litre	Quarterly	Grab sample
Chromium (hexavalent)	milligrams per litre	Yearly	Grab sample
Chromium (total)	milligrams per litre	Yearly	Grab sample
Cobalt	milligrams per litre	Yearly	Grab sample
Copper	milligrams per litre	Yearly	Grab sample
Ethyl benzene	milligrams per litre	Yearly	Grab sample
Fluoride	milligrams per litre	Yearly	Grab sample
Lead	milligrams per litre	Yearly	Grab sample
Magnesium	milligrams per litre	Quarterly	Grab sample
Manganese	milligrams per litre	Yearly	Grab sample
Mercury	milligrams per litre	Yearly	Grab sample
Nitrate	milligrams per litre	Yearly	Grab sample
Nitrite	milligrams per litre	Yearly	Grab sample
Nitrogen (ammonia)	milligrams per litre	Quarterly	Grab sample

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Organochlorine pesticides	milligrams per litre	Yearly	Grab sample
Organophosphate pesticides	milligrams per litre	Yearly	Grab sample
pH	pH	Quarterly	Probe
Polycyclic aromatic hydrocarbons	milligrams per litre	Yearly	Grab sample
Potassium	milligrams per litre	Quarterly	Grab sample
Sodium	milligrams per litre	Quarterly	Grab sample
Standing Water Level	metres	Quarterly	In situ
Sulfate	milligrams per litre	Quarterly	Grab sample
Toluene	milligrams per litre	Yearly	Grab sample
Total dissolved solids	milligrams per litre	Quarterly	Grab sample
Total organic carbon	milligrams per litre	Quarterly	Grab sample
Total petroleum hydrocarbons	milligrams per litre	Yearly	Grab sample
Total Phenolics	milligrams per litre	Yearly	Grab sample
Xylene	milligrams per litre	Yearly	Grab sample
Zinc	milligrams per litre	Yearly	Grab sample

M2.4 For the purposes of the above table, Special Method 1 means monitoring undertaken in accordance with Benchmark Technique 17 of the document Environmental Guidelines: Solid Waste Landfills, 1996.

## M3 Testing methods - concentration limits

M3.1 Monitoring for the concentration of a pollutant emitted to the air required to be conducted by this licence must be done in accordance with:

- any methodology which is required by or under the Act to be used for the testing of the concentration of the pollutant; or
- if no such requirement is imposed by or under the Act, any methodology which a condition of this licence requires to be used for that testing; or
- if no such requirement is imposed by or under the Act or by a condition of this licence, any methodology approved in writing by the EPA for the purposes of that testing prior to the testing taking place.

M3.2 Subject to any express provision to the contrary in this licence, monitoring for the concentration of a pollutant discharged to waters or applied to a utilisation area must be done in accordance with the Approved Methods Publication unless another method has been approved by the EPA in writing before any tests are conducted.

Note: The *Protection of the Environment Operations (Clean Air) Regulation 2010* requires testing for certain purposes to be conducted in accordance with test methods contained in the publication "Approved Methods for the Sampling and Analysis of Air Pollutants in NSW".

# Environment Protection Licence

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## **M4 Weather monitoring**

M4.1 The licensee must monitor and record on a daily basis both rainfall and evaporation.

## **M5 Recording of pollution complaints**

M5.1 The licensee must keep a legible record of all complaints made to the licensee or any employee or agent of the licensee in relation to pollution arising from any activity to which this licence applies.

M5.2 The record must include details of the following:

- a) the date and time of the complaint;
- b) the method by which the complaint was made;
- c) any personal details of the complainant which were provided by the complainant or, if no such details were provided, a note to that effect;
- d) the nature of the complaint;
- e) the action taken by the licensee in relation to the complaint, including any follow-up contact with the complainant; and
- f) if no action was taken by the licensee, the reasons why no action was taken.

M5.3 The record of a complaint must be kept for at least 4 years after the complaint was made.

M5.4 The record must be produced to any authorised officer of the EPA who asks to see them.

## **M6 Telephone complaints line**

M6.1 The licensee must operate during its operating hours a telephone complaints line for the purpose of receiving any complaints from members of the public in relation to activities conducted at the premises or by the vehicle or mobile plant, unless otherwise specified in the licence.

M6.2 The licensee must notify the public of the complaints line telephone number and the fact that it is a complaints line so that the impacted community knows how to make a complaint.

M6.3 The preceding two conditions do not apply until 3 months after: the date of the issue of this licence.

## **M7 Other monitoring and recording conditions**

M7.1 The licensee must monitor the remaining disposal capacity (in cubic metres) of the landfill.

M7.2 The licensee must record for each load of waste received at the premises, the region where the waste was generated, namely whether it originated from:

- a) The Sydney Metropolitan Area (SMA);
- b) The Extended Regulated Area (ERA); or
- c) Outside the SMA and ERA.

M7.3 Any waste of unknown origin must be recorded as coming from the SMA.

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M7.4 The licensee must retain this information for 4 years.

M7.5 The licensee must monitor the stability of the liner in the anchor trenches and submit a report to the EPA within 7 days of the liner pulling out of any anchor trench. The report must propose works to reinstate the liner and a timetable for implementing the works.

## 6 Reporting Conditions

### R1 Annual return documents

R1.1 The licensee must complete and supply to the EPA an Annual Return in the approved form comprising:  
a) a Statement of Compliance; and  
b) a Monitoring and Complaints Summary.

At the end of each reporting period, the EPA will provide to the licensee a copy of the form that must be completed and returned to the EPA.

R1.2 An Annual Return must be prepared in respect of each reporting period, except as provided below.

R1.3 Where this licence is transferred from the licensee to a new licensee:  
a) the transferring licensee must prepare an Annual Return for the period commencing on the first day of the reporting period and ending on the date the application for the transfer of the licence to the new licensee is granted; and  
b) the new licensee must prepare an Annual Return for the period commencing on the date the application for the transfer of the licence is granted and ending on the last day of the reporting period.

R1.4 Where this licence is surrendered by the licensee or revoked by the EPA or Minister, the licensee must prepare an Annual Return in respect of the period commencing on the first day of the reporting period and ending on:  
a) in relation to the surrender of a licence - the date when notice in writing of approval of the surrender is given; or  
b) in relation to the revocation of the licence - the date from which notice revoking the licence operates.

R1.5 The Annual Return for the reporting period must be supplied to the EPA by registered post not later than 60 days after the end of each reporting period or in the case of a transferring licence not later than 60 days after the date the transfer was granted (the 'due date').

R1.6 The licensee must retain a copy of the Annual Return supplied to the EPA for a period of at least 4 years after the Annual Return was due to be supplied to the EPA.

R1.7 Within the Annual Return, the Statement of Compliance must be certified and the Monitoring and Complaints Summary must be signed by:  
a) the licence holder; or  
b) by a person approved in writing by the EPA to sign on behalf of the licence holder.

Note: The term "reporting period" is defined in the dictionary at the end of this licence. Do not complete the Annual Return until after the end of the reporting period.

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Note: An application to transfer a licence must be made in the approved form for this purpose.

## **R2 Notification of environmental harm**

R2.1 Notifications must be made by telephoning the Environment Line service on 131 555.

R2.2 The licensee must provide written details of the notification to the EPA within 7 days of the date on which the incident occurred.

Note: The licensee or its employees must notify all relevant authorities of incidents causing or threatening material harm to the environment immediately after the person becomes aware of the incident in accordance with the requirements of Part 5.7 of the Act.

## **R3 Written report**

R3.1 Where an authorised officer of the EPA suspects on reasonable grounds that:

- a) where this licence applies to premises, an event has occurred at the premises; or
- b) where this licence applies to vehicles or mobile plant, an event has occurred in connection with the carrying out of the activities authorised by this licence,

and the event has caused, is causing or is likely to cause material harm to the environment (whether the harm occurs on or off premises to which the licence applies), the authorised officer may request a written report of the event.

R3.2 The licensee must make all reasonable inquiries in relation to the event and supply the report to the EPA within such time as may be specified in the request.

R3.3 The request may require a report which includes any or all of the following information:

- a) the cause, time and duration of the event;
- b) the type, volume and concentration of every pollutant discharged as a result of the event;
- c) the name, address and business hours telephone number of employees or agents of the licensee, or a specified class of them, who witnessed the event;
- d) the name, address and business hours telephone number of every other person (of whom the licensee is aware) who witnessed the event, unless the licensee has been unable to obtain that information after making reasonable effort;
- e) action taken by the licensee in relation to the event, including any follow-up contact with any complainants;
- f) details of any measure taken or proposed to be taken to prevent or mitigate against a recurrence of such an event; and
- g) any other relevant matters.

R3.4 The EPA may make a written request for further details in relation to any of the above matters if it is not satisfied with the report provided by the licensee. The licensee must provide such further details to the EPA within the time specified in the request.

R3.5 The licensee must provide a written report, to the Manager Waste Operations, detailing all waste received at the premises for each calendar month. The report must include the total quantity of waste received, the quantity received from each area (being SMA, ERA, RRA and other), and the classification of waste

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received.

- R3.6 The monthly incoming waste report must include a table showing the per annum quantity of waste received, up to and including the month which the report relates to (ie. The quantity of waste received in the reporting month and the preceding 11 months).
- R3.7 The monthly waste report must be submitted within 28 days of the end of each calendar month, providing details of waste received during the previous calendar month.
- R3.8 The requirement to provide a monthly report of all waste received at the premises under this section, is in addition to and does not replace any other waste reporting requirements set out under the POEO Act or POEO Waste Regulations.

## R4 Other reporting conditions

- R4.1 The licensee must maintain a daily log and record the following data of fires at the site:
- a) Time and date when the fire was deliberately started or reported.
  - b) Whether the fire was authorised by the licensee, and, if not, the circumstances which ignited the fire.
  - c) The time and date that the fire ceased and whether it burnt out or was extinguished.
  - d) The location of fire (eg. clean timber stockpile, putrescible garbage cell, etc).
  - e) Prevailing weather conditions.
  - f) Observations made in regard to smoke direction and dispersion.
  - g) The amount of waste that was combusted by the fire.
  - h) Action taken to extinguish the fire.
- R4.2 The licensee or its employees or agents must notify the EPA in accordance with conditions R2.1 and R2.2 of all fires at the premises as soon as practical after becoming aware of the incident.

## 7 General Conditions

### G1 Copy of licence kept at the premises or plant

- G1.1 A copy of this licence must be kept at the premises to which the licence applies.
- G1.2 The licence must be produced to any authorised officer of the EPA who asks to see it.
- G1.3 The licence must be available for inspection by any employee or agent of the licensee working at the premises.

## 8 Pollution Studies and Reduction Programs

### U1 Leachate Management Works

- U1.1 By no later than 30 July 2014, the Licensee must submit a report to the EPA that includes:



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1. Details of the volume of leachate irrigated over the active cell each day between 1 January 2014 and 30 June 2014.
2. Details of the volume of leachate discharged into the leachate storage ponds each day between 1 January 2014 and 30 June 2014.
3. Daily depth levels of the leachate storage ponds for the period 1 January 2014 to 30 June 2014.
4. Daily rainfall and evaporation data for the period 1 January 2014 to 30 June 2014.
5. An assessment of actual leachate management performance against the predictions made in the report titled "Report on Leachate Water Balance Study" (Douglas Partners, April 2013).
6. Recommendations for future management of leachate at the premises.

U1.2 The report referenced in Condition U1.1 must be prepared by a suitably qualified and experienced, independent consultant.

## 9 Special Conditions

### E1 Financial assurance

- E1.1 A financial assurance in the form of an unconditional and irrevocable guarantee from a bank, building society or credit union in favour of the EPA in the amount of two hundred thousand dollars (\$200,000.00) must be provided to the EPA. The financial assurance is required to secure or guarantee funding for works or programs required by or under this licence.
- E1.2 The financial assurance must be maintained during the operation of the facility and thereafter until such time as the EPA is satisfied that the premises is environmentally secure. At this time the licensee may seek the return of the financial assurance from the EPA.
- E1.3 The assurance must be replenished to the full amount if the EPA has claimed on or realised the financial assurance or any part of it to undertake a work or program required to be carried out by the licence which has not been undertaken by the licence holder.
- E1.4 The EPA may increase the amount of the financial assurance at any time as a result of reassessment of the total likely costs and expenses of rehabilitation of the premises.
- E1.5 The licensee must provide to the EPA the original counterpart guarantee within five working days of:
- a) The financial assurance required by Condition E1.1, and
  - b) The adjusted financial assurance as required by Condition E1.3 and E1.4.
- E1.6 In the event that the licensee does not comply with any condition of the licence or the requirements of the Protection of the Environment Operations Act 1997 and the licensee does not undertake the actions required by the conditions and/or by the EPA, the EPA may claim against the financial assurance lodged by the licensee to ensure that these actions are undertaken.



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## Dictionary

### General Dictionary

<b>3DGM [in relation to a concentration limit]</b>	Means the three day geometric mean, which is calculated by multiplying the results of the analysis of three samples collected on consecutive days and then taking the cubed root of that amount. Where one or more of the samples is zero or below the detection limit for the analysis, then 1 or the detection limit respectively should be used in place of those samples
<b>Act</b>	Means the Protection of the Environment Operations Act 1997
<b>activity</b>	Means a scheduled or non-scheduled activity within the meaning of the Protection of the Environment Operations Act 1997
<b>actual load</b>	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
<b>AM</b>	Together with a number, means an ambient air monitoring method of that number prescribed by the <i>Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales</i> .
<b>AMG</b>	Australian Map Grid
<b>anniversary date</b>	The anniversary date is the anniversary each year of the date of issue of the licence. In the case of a licence continued in force by the Protection of the Environment Operations Act 1997, the date of issue of the licence is the first anniversary of the date of issue or last renewal of the licence following the commencement of the Act.
<b>annual return</b>	Is defined in R1.1
<b>Approved Methods Publication</b>	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
<b>assessable pollutants</b>	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
<b>BOD</b>	Means biochemical oxygen demand
<b>CEM</b>	Together with a number, means a continuous emission monitoring method of that number prescribed by the <i>Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales</i> .
<b>COD</b>	Means chemical oxygen demand
<b>composite sample</b>	Unless otherwise specifically approved in writing by the EPA, a sample consisting of 24 individual samples collected at hourly intervals and each having an equivalent volume.
<b>cond.</b>	Means conductivity
<b>environment</b>	Has the same meaning as in the Protection of the Environment Operations Act 1997
<b>environment protection legislation</b>	Has the same meaning as in the Protection of the Environment Administration Act 1991
<b>EPA</b>	Means Environment Protection Authority of New South Wales.
<b>fee-based activity classification</b>	Means the numbered short descriptions in Schedule 1 of the Protection of the Environment Operations (General) Regulation 2009.
<b>general solid waste (non-putrescible)</b>	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997

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<b>flow weighted composite sample</b>	Means a sample whose composites are sized in proportion to the flow at each composites time of collection.
<b>general solid waste (putrescible)</b>	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
<b>grab sample</b>	Means a single sample taken at a point at a single time
<b>hazardous waste</b>	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
<b>licensee</b>	Means the licence holder described at the front of this licence
<b>load calculation protocol</b>	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
<b>local authority</b>	Has the same meaning as in the Protection of the Environment Operations Act 1997
<b>material harm</b>	Has the same meaning as in section 147 Protection of the Environment Operations Act 1997
<b>MBAS</b>	Means methylene blue active substances
<b>Minister</b>	Means the Minister administering the Protection of the Environment Operations Act 1997
<b>mobile plant</b>	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
<b>motor vehicle</b>	Has the same meaning as in the Protection of the Environment Operations Act 1997
<b>O&amp;G</b>	Means oil and grease
<b>percentile [in relation to a concentration limit of a sample]</b>	Means that percentage [eg.50%] of the number of samples taken that must meet the concentration limit specified in the licence for that pollutant over a specified period of time. In this licence, the specified period of time is the Reporting Period unless otherwise stated in this licence.
<b>plant</b>	Includes all plant within the meaning of the Protection of the Environment Operations Act 1997 as well as motor vehicles.
<b>pollution of waters [or water pollution]</b>	Has the same meaning as in the Protection of the Environment Operations Act 1997
<b>premises</b>	Means the premises described in condition A2.1
<b>public authority</b>	Has the same meaning as in the Protection of the Environment Operations Act 1997
<b>regional office</b>	Means the relevant EPA office referred to in the Contacting the EPA document accompanying this licence
<b>reporting period</b>	For the purposes of this licence, the reporting period means the period of 12 months after the issue of the licence, and each subsequent period of 12 months. In the case of a licence continued in force by the Protection of the Environment Operations Act 1997, the date of issue of the licence is the first anniversary of the date of issue or last renewal of the licence following the commencement of the Act.
<b>restricted solid waste</b>	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
<b>scheduled activity</b>	Means an activity listed in Schedule 1 of the Protection of the Environment Operations Act 1997
<b>special waste</b>	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
<b>TM</b>	Together with a number, means a test method of that number prescribed by the <i>Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales</i> .

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<b>TSP</b>	Means total suspended particles
<b>TSS</b>	Means total suspended solids
<b>Type 1 substance</b>	Means the elements antimony, arsenic, cadmium, lead or mercury or any compound containing one or more of those elements
<b>Type 2 substance</b>	Means the elements beryllium, chromium, cobalt, manganese, nickel, selenium, tin or vanadium or any compound containing one or more of those elements
<b>utilisation area</b>	Means any area shown as a utilisation area on a map submitted with the application for this licence
<b>waste</b>	Has the same meaning as in the Protection of the Environment Operations Act 1997
<b>waste type</b>	Means liquid, restricted solid waste, general solid waste (putrescible), general solid waste (non - putrescible), special waste or hazardous waste

Mr Stephen Beaman

Environment Protection Authority

(By Delegation)

Date of this edition: 06-August-2013

## End Notes

- 1 Licence varied by change to DEC Region allocation, issued on 02-Mar-2006, which came into effect on 02-Mar-2006.
- 2 Licence varied by notice 1066763, issued on 04-Jan-2007, which came into effect on 04-Jan-2007.
- 3 Condition A1.3 Not applicable varied by notice issued on <issue date> which came into effect on <effective date>
- 4 Licence varied by notice 1077217, issued on 23-Sep-2010, which came into effect on 23-Sep-2010.
- 5 Licence varied by notice 1518405 issued on 17-Mar-2014
- 6 Licence varied by notice 1533375 issued on 04-Sep-2015