

# Environment Protection Licence

Licence - 11395



## Licence Details

Number:	11395
Anniversary Date:	21-November

## Licensee

VERDE TERRA PTY LTD

PO BOX 493

LINDFIELD NSW 2070

## Premises

MANGROVE MOUNTAIN MEMORAL GOLF CLUB  
 PART OF LOT 582, DP 1123656, HALLARDS ROAD  
 CENTRAL MANGROVE NSW 2250

## Scheduled Activity

Waste Disposal (application to land)

## Fee Based Activity

Waste disposal by application to land

## Scale

Any annual capacity

## Region

Waste Operations

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 SYDNEY NSW 2000

Phone: 02 9995 5000

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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); and
- 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:

<b>VERDE TERRA PTY LTD</b>
<b>PO BOX 493</b>
<b>LINDFIELD NSW 2070</b>

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
MANGROVE MOUNTAIN MEMORAL GOLF CLUB
PART OF LOT 582, DP 1123656, HALLARDS ROAD
CENTRAL MANGROVE
NSW 2250
SHOWN AS "LANDFILL AREA B" ON FIGURE TITLED "COORDINATES OF LANDFILL AREAS A, B, C" ON DRAWING CES090706-CMW DATED 11/05/2010 BY CONSULTING EARTH SCIENTISTS

### A3 Information supplied to the EPA

A3.1 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:

- 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
- the licence information form provided by the licensee to the EPA to assist the EPA in connection with the issuing of this licence.

A3.2 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.

- Leachate Management Plan for Landfill Area B and Cells W, X, Y & Z

Correspondence dated 30 November 2009 submitted by Consulting Earth Scientists titled

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Leachate Management Plan (LMP).

b) Soil & Water Management Plan

Correspondence dated 11 May 2010 submitted by Consulting Earth Scientists titled:

i) Additional information requested – Verde Terra Pty Ltd – Environment Protection Licence 11395; and

ii) Soil and Water Management Plan (SWMP): Central Mangrove Waste, Lot 582 DP 1123656, Hallards Road, Central Mangrove, New South Wales.

## 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 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.

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.

#### *Water and land*

EPA Identification no.	Type of Monitoring Point	Type of Discharge Point	Location Description
1	Wet weather discharge sediment pond - Discharge quality monitoring	Wet weather discharge sediment pond - Discharge quality monitoring	Wet weather discharge from sediment pond - Easting 336383.785 Northings 6315589.745;
2	Groundwater quality monitoring		Point 2AS - Shallow Nested Well - Easting 336417.3; Northings 6315590.20
3	Groundwater quality monitoring		Point 2AD - Deep Nested Well - Easting 336417.3; Northings 6315590.20
4	Ground water quality monitoring		Point 3AS - Shallow Nested Well - Easting 335958.2; Northings 6315520.4
5	Ground water quality monitoring		Point 3AD - Deep Nested Well - Easting 335958.2; Northings 6315520.4
6	Ground water quality monitoring		Point 6AS - Shallow Nested Well - Easting 336193.7; Northings 6315637.8
7	Ground water quality Monitoring		Point 6AD - Deep Nested Well - Easting 336193.7; Northings 6315637.8
8	Ground water quality monitoring		Point 7AS - Shallow Nested Well - Easting 336108.0; Northings 6315708

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9	Ground water quality monitoring	Point 7AD - Deep Nested Well - Easting 336108.0; Northings 6315708
10	Ground water quality monitoring	Point 8AS - Shallow Nested Well - Easting 336276; Northings 6315470.8
11	Ground water quality monitoring	Point 8AD - Deep Nested Well - Easting 336276; Northings 6315470.8
12	Subsurface gas Monitoring	Subsurface gas monitoring bore labelled 2AS on Figure 3: Subsurface Gas Monitoring Locations - CES090607-CMW dated 5/11/10
13	Subsurface gas monitoring	Subsurface gas monitoring bore labelled 2AD on Figure 3: Subsurface Gas Monitoring Locations - CES090607-CMW dated 5/11/10
14	Subsurface gas monitoring	Subsurface gas monitoring bore labelled 3AS on Figure 3: Subsurface Gas Monitoring Locations - CES090607-CMW dated 5/11/10
15	Subsurface gas monitoring	Subsurface gas monitoring bore labelled 3AD on Figure 3: Subsurface Gas Monitoring Locations - CES090607-CMW dated 5/11/10
16	Sub-surface gas monitoring	Subsurface gas monitoring bore labelled 6AS on Figure 3: Subsurface Gas Monitoring Locations - CES090607-CMW dated 5/11/10
17	Subsurface gas monitoring	Subsurface gas monitoring bore labelled 6AD on Figure 3: Subsurface Gas Monitoring Locations - CES090607-CMW dated 5/11/10
18	Subsurface gas monitoring	Subsurface gas monitoring bore labelled 7AS on Figure 3: Subsurface Gas Monitoring Locations - CES090607-CMW dated 5/11/10
19	Subsurface gas monitoring	Subsurface gas monitoring bore labelled 7AD on Figure 3: Subsurface Gas Monitoring Locations - CES090607-CMW dated 5/11/10
20	Sub-surface gas monitoring	Subsurface gas monitoring bore labelled 8AS on Figure 3: Subsurface Gas Monitoring Locations - CES090607-CMW dated 5/11/10



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21	Subsurface gas monitoring	Subsurface gas monitoring bore labelled 8AD on Figure 3: Subsurface Gas Monitoring Locations - CES090607-CMW dated 5/11/10
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## 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.

### L2 Concentration limits

L2.1 For each monitoring/discharge point or utilisation area specified in the table below (by a point number), the concentration of a pollutant discharged at that point, or applied to that area, must not exceed the concentration limits specified for that pollutant in the table.

L2.2 Where a pH quality limit is specified in the table, the specified percentage of samples must be within the specified ranges.

L2.3 To avoid any doubt, this condition does not authorise the pollution of waters by any pollutant other than those specified in the table.

L2.4 Water and/or Land Concentration Limits

#### POINT 1

Pollutant	Units of Measure	50 percentile concentration limit	90 percentile concentration limit	3DGM concentration limit	100 percentile concentration limit
Ammonia	milligrams per litre				0.9
pH	pH				6.5-8.5
Total suspended solids	milligrams per litre				50

### L3 Waste

L3.1 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

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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.

Code	Waste	Description	Activity	Other Limits
NA	General solid waste (non-putrescible)	Soil that meets the General Solid Waste Classification (assessed against the CT1 & CT2 thresholds, Table 1 and 2) of the Waste Classification Guidelines December 2009	Waste disposal (application to land)	
NA	General solid waste (non-putrescible)	Virgin Excavated Material (VENM)	Waste disposal (application to land)	
NA	General solid waste (non-putrescible)	Building and Demolition Waste which does not contain asbestos	Waste disposal (application to land)	
NA	General solid waste (non-putrescible)	Glass, Plastic, rubber, plasterboard, ceramics, bricks, concrete or metal	Waste disposal (application to land)	
NA	General solid waste (non-putrescible)	Paper and Cardboard	Waste disposal (application to land)	
NA	General solid waste (non-putrescible)	Asphalt Waste (including asphalt resulting from road construction and waterproofing works)	Waste disposal (application to land)	
NA	General solid waste (non-putrescible)	Wood waste	Waste disposal (application to land)	
NA	General solid waste (non-putrescible)	Tyres	Waste disposal (application to land)	Tyres stockpiled at the Premises must not exceed fifty (50) tonnes at any one time
NA	General solid waste (non-putrescible)	Waste material from transfer stations	Waste disposal (application to land)	Only if: (i) that waste is specified in this table; and (ii) the waste is not mixed with any other waste not specified in this table
NA	Waste	Any waste received on site that is below licensing thresholds in Schedule 1 of the	Waste disposal (application to land)	NA

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POEO Act, as in force  
from time to time

## L4 Noise limits

L4.1 Noise from the premises must not exceed:

- a) an LA10 (15 minute) noise emission criterion of 55 dB(A) (7am to 6pm ) Monday to Friday and 7am to 1pm Saturday ; and
- b) an LA10 (15 minute) noise emission criterion of 45 dB(A) during the evening (6pm to 10pm) Monday to Friday; and
- c) at all other times, an LA10 (15 minutes) noise emission criterion of 40 dB(A), except as expressly provided by this licence.

L4.2 Noise from the premises is to be measured at the boundary to determine compliance with this condition.

## L5 Hours of operation

L5.1 All work at the premises must be conducted between the following hours:

Mondays to Fridays: 7.00am to 5.00pm and Saturdays: 8.00am to 12.00pm. No work is to be undertaken on Sundays or Public Holidays.

## L6 Potentially offensive odour

L6.1 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.

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.

## 4 Operating Conditions

### 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.

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## 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.
- O3.2 A mobile water plant for dust suppression must be operational and functioning to prevent dust during hours of operation.

## O4 Emergency response

- O4.1 The licensee must extinguish fires at the premises as soon as possible.
- O4.2 The licensee must have in place and implement procedures to minimise the risk of fire at the premises.
- O4.3 The licensee must maintain and implement as necessary, a current emergency response plan for the premises.
- a) The licensee must keep the emergency response plan on the premises at all times.
  - b) The emergency response plan must document systems and procedures to deal with all types of incidents (e.g. spills, explosions or fire) that may occur at the premises or that may be associated with activities that occur at the premises and which are likely to cause harm to the environment.
  - c) If a current emergency response plan does not exist at the date on which this condition is attached to the licence, the licensee must develop an emergency response plan within three months of that date.

## O5 Processes and management

- O5.1 The sedimentation system/leachate holding ponds must be maintained to ensure that their design capacity is available for the storage of stormwater/leachate.
- O5.2 The drainage from all areas at the premises which will liberate suspended solids when stormwater runs over these areas must be diverted into sedimentation basins.
- O5.3 Each sedimentation basin must have a marker (the "sedimentation basin marker"), located within each sediment basin, that identifies the upper level of the sediment storage zone.
- O5.4 Whenever the level of liquid and other material in any sedimentation basin exceeds the level indicated by the sedimentation basin marker, the licensee must take all practical measures as soon as possible to reduce the level of liquid and other material in the sedimentation basin.

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- O5.5 Each basin used for the capture or storage of stormwater at the premises must be identified by a clearly visible sign placed adjacent to the basin that it identifies.
- O5.6 Surface water drainage must be diverted away from any area where waste is being landfilled.
- O5.7 The licensee must take all practicable steps to control entry to the premises.
- O5.8 The licensee must install and maintain lockable security gates at all access and departure locations.
- O5.9 The licensee must ensure that all gates are locked whenever the landfill is unattended.
- O5.10 The licensee must control pests, vermin and weeds at the premises.

## O6 Waste management

- O6.1 The licensee must prepare and submit to the EPA within twelve (12) months of acceptance of 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 leachate barrier system must be installed on each surface within the premises to be used for the storage of leachate.
- O6.3 The leachate collection system must be capable of capturing all leachate generated from the waste disposed of at the premises.
- O6.4 There must be no incineration or burning of any waste at the premises.
- O6.5 The licensee must have in place and implement procedures to identify and prevent the disposal of any waste not permitted by this licence to be disposed of at the premises.
- O6.6 Subject to condition O6.8, the Licensee may construct cells W, X, Y & Z on the premises in accordance with the design submitted with the Licensee's application on 30 November 2009. Construction of any other cell requires the written approval of the EPA.
- O6.7 The licensee must provide a report to the EPA which:
  - a) details the design, construction, operation and rehabilitation of any proposed new landfill cells to be constructed at the Premises, other than landfill cells W, X, Y & Z; and
  - b) must be submitted to the EPA at least three months before the licensee intends to construct the proposed new landfill cell.
- O6.8 The Licensee must provide written notification to the EPA of its intention to commence construction of each landfill Cell X, Y & Z prior to construction commencing (" the notification"). The notification must be provided at least 60 days prior to the commencement of the construction of landfill cell X, Y & Z.

The notification must include:

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a) Details of any amendments to the original design specifications (as specified in Condition A4.2 of this licence) provided to the EPA for landfill cells X, Y and Z;

b) Details of any amendments to the original design specifications provided to the EPA for any sediment pond/basin, leachate pond, or collection systems relating to capture of surface waters and leachate generated at the Premises; and

c) The rationale for any proposed modifications or amendments to the original design (as specified in Condition A4.2 of this licence).

- O6.9 Where the Licensee has proposed any amendment to the original design of any cell, construction of the relevant cell must not commence until the EPA has provided written approval of the amended design.
- O6.10 The Licensee must provide the EPA written notice no less than 30 days prior to the completion of each of cell W, X, Y and Z. That notice must specify the date upon which completion is expected to occur.
- O6.11 The licensee must ensure that all landfill cells are capped progressively and in accordance with Benchmark Technique 28 of the EPA's Environmental Guidelines: Solid Waste Landfills (1996) within six months after the level of waste in each landfill cell reaches final height.
- O6.12 Final capping must be comprised of five layers in the following order of installation: a seal bearing surface, a gas drainage layer, a sealing layer, an infiltration layer, and the revegetation layer in accordance with Benchmark Technique 28 of the EPA's Environmental Guidelines: Solid Waste Landfills (1996) or an alternative landfill capping system of equivalent performance as approved in writing by the EPA.
- O6.13 Cover material must be virgin excavated material (VENM), or as otherwise approved in writing by the EPA.
- 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.
- O6.14 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.
- O6.15 Waste must not be stockpiled at the premises.
- O6.16 All waste received at the premises for disposal must be disposed of into the active landfill cell on the day it is received at the premises.
- O6.17 The Licensee must not dispose of any tyres at 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 tyres; and
- c) Became waste in the Sydney Metropolitan Area.

O6.18 Tyres from within the Sydney Metropolitan Area must not be received at the Premises

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unless;

- a) They have been shredded into pieces measuring no more than 250 mm in any direction;
- or
- b) They have had their walls removed; or
- c) The tyres are from a domestic load containing no more than five tyres having a diameter of less than 1.2 metres.

O6.19 The licensee must not exhume any landfilled waste at the premises unless approved in writing by the EPA.

## **O7 Other operating conditions**

- O7.1 All leachate ponds at the Premises must have a marker (the “leachate pond marker”), located within each leachate pond, that identifies the upper volume level of the leachate pond storage zone.
- O7.2 Whenever the level of liquid and other material in any leachate pond exceeds the level indicated by the leachate pond marker within that pond, the licensee must take all practical measures as soon as possible to reduce the volume of liquid and other material within the leachate pond.
- O7.3 All leachate ponds used for capture of leachate at the premises must be identified by a clearly visible sign placed adjacent to the leachate pond that it identifies.
- O7.4 Surface water run-off from all disturbed areas at the premises which may liberate suspended solids when stormwater runs over these areas must be diverted into sedimentation basins.
- O7.5 Any leachate storage pond must be designed to prevent stormwater running into it.

## **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.



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## 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 Water and/ or Land Monitoring Requirements

#### POINT 2,3,4,5,6,7,8,9,10,11

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
Biochemical oxygen demand	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
Chlorinated volatile compounds	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	Grab sample
Copper	milligrams per litre	Yearly	Grab sample
Ethyl benzene	milligrams per litre	Yearly	Grab sample
Fluoride	milligrams per litre	Quarterly	Grab sample
Iron	milligrams per litre	Quarterly	Grab sample
Lead	milligrams per litre	Yearly	Grab sample
Magnesium	milligrams per litre	Quarterly	Grab sample
Manganese	milligrams per litre	Quarterly	Grab sample
Mercury	milligrams per litre	Yearly	Grab sample
Nitrate	milligrams per litre	Quarterly	Grab sample
Nitrogen (ammonia)	milligrams per litre	Quarterly	Grab sample
Organochlorine pesticides	milligrams per litre	Yearly	Grab sample
Organophosphate pesticides	milligrams per litre	Yearly	Grab sample
PCBs	milligrams per litre	Yearly	Grab sample
pH	pH	Quarterly	Grab sample
Phosphate	milligrams per litre	Yearly	Grab sample



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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	No method specified
Sulfate	milligrams per litre	Quarterly	Grab sample
Toluene	milligrams per litre	Yearly	Grab sample
Total dissolved solids	milligrams per litre	Yearly	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	Quarterly	Grab sample
Total suspended solids	milligrams per litre	Yearly	Grab sample
Zinc	milligrams per litre	Yearly	Grab sample

## POINT 12,13,14,15,16,17,18,19,20,21

Pollutant	Units of measure	Frequency	Sampling Method
Methane	parts per million	Quarterly	Special Method 1

M2.3 For the purposes of the table above, Special Method 1 means monitoring undertaken in accordance with Benchmark Technique 16 of the EPA's Environmental Guidelines: Solid Waste Landfills (1996).

### M3 Testing methods - concentration limits

M3.1 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.

### M4 Recording of pollution complaints

M4.1 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.

M4.2 The record must include details of the following:

- the date and time of the complaint;
- the method by which the complaint was made;
- any personal details of the complainant which were provided by the complainant or, if no such details were provided, a note to that effect;
- the nature of the complaint;
- the action taken by the licensee in relation to the complaint, including any follow-up contact

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- with the complainant; and
- f) if no action was taken by the licensee, the reasons why no action was taken.

M4.3 The record of a complaint must be kept for at least 4 years after the complaint was made.

M4.4 The record must be produced to any authorised officer of the EPA who asks to see them.

## M5 Telephone complaints line

M5.1 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.

M5.2 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.

M5.3 The preceding two conditions do not apply until 3 months after:

- a) the date of the issue of this licence or
- b) if this licence is a replacement licence within the meaning of the Protection of the Environment Operations (Savings and Transitional) Regulation 1998, the date on which a copy of the licence was served on the licensee under clause 10 of that regulation.

## M6 Other monitoring and recording conditions

M6.1 The licensee must conduct surface monitoring for landfill gas (methane, oxygen, carbon monoxide and carbon dioxide) on a quarterly basis in accordance with Benchmark Technique 17 of the EPA's Environmental Guidelines: Solid Waste Landfills (1996).

## 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

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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.

R1.8 A person who has been given written approval to certify a certificate of compliance under a licence issued under the Pollution Control Act 1970 is taken to be approved for the purpose of this condition until the date of first review of this licence.

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.

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

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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.

## 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

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- 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 Special Conditions

### E1 Requirements to Maintain Financial Assurance

- E1.1 A financial assurance in the form of an unconditional and irrevocable guarantee from an Australia Bank, Building society or Credit Union in the favour of the EPA in the amount of Three Hundred Thousand dollars (\$300,000) must be provided to the EPA and maintained. The financial assurance is required to secure or guarantee funding for works or programs required by or under this licence.

Note: This condition refers to the financial assurance that was provided by the Licensee in the favour of the EPA in the amount of Three Hundred Thousand dollars (\$300,000) dated 30 June 2009.

- E1.2 The financial assurance must contain a term that provides that any monies claimed can be paid to the EPA or, at the written direction of the EPA, to any other person.
- E1.3 The financial assurance must be maintained during the operation of the facility and thereafter until such time as the EPA is satisfied the premises is environmentally secure.
- E1.4 The financial assurance must be replenished by the full amount claimed or realised if the EPA has claimed 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.
- E1.5 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.
- E1.6 The licensee must provide to the EPA the original counterpart guarantee within fourteen working days of the issue of the adjusted financial assurance as required by conditions E1.4 and E1.5.

### E2 Environmental Obligations of Licensee

- E2.1 While the licensee's premises are being used for the purpose to which the licence relates, the licensee must:
  - a) Clean up any spill, leak or other discharge of any waste(s) or other material(s) as soon as practicable after it becomes known to the licensee or to one of the licensee's employees or agents.
  - b) In the event (s) that any liquid and non-liquid waste(s) is unlawfully deposited on the

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premises, such waste(s) must be removed and lawfully disposed of as soon as practicable or in accordance with any direction given by the EPA.

c) Provide all monitoring data as required by the conditions of this licence or as directed by the EPA.

**E2.2** In the event of an earthquake, storm, fire, flood or any other event where it is reasonable to suspect that a pollution incident has occurred, is occurring or is likely to occur, the licensee (whether or not the premises continue to be used for the purposes to which the licence relates) must:

- a) make all efforts to contain all firewater on the licensee's premises,
- b) make all efforts to control air pollution from the licensee's premises,
- c) make all efforts to contain any discharge, spill or run-off from the licensee's premises,
- d) make all efforts to prevent flood water entering the licensee's premises,
- e) remediate and rehabilitate any exposed areas of soil and/or waste,
- f) lawfully dispose of all liquid and solid waste(s) stored on the premises that is not already securely disposed of,
- g) at the request of the EPA monitor groundwater beneath the licensee's premises and its potential to migrate from the licensee's premises,
- h) at the request of the EPA monitor surface water leaving the licensee's premises; and
- i) ensure the licensee's premises is secure.

**E2.3** After the licensee's premises cease to be used for the purpose to which the licence relates or in the event that the licensee ceases to carry out the activity that is the subject of this licence, that the licensee must:

- a) remove and lawfully dispose of all liquid and non-liquid waste stored on the licensee's premises; and
- b) rehabilitate the site, including conducting an assessment of and if required remediation of any site contamination.

## **E3 EPA may claim on Financial Assurance**

**E3.1** The EPA may claim on a financial assurance under section 303 of the POEO Act if a licensee fails to carry out any work or program required to comply with the conditions of this licence or directions specified in a clean up notice issued under section 91 of the POEO Act.

## **E4 Required works prior to the placement of waste in Landfill Cell W.**

**E4.1** Prior to the placement and/or disposal of waste in Landfill Cell W, the Licensee must:

- a) Complete installation of a temporary bund around Landfill Cell W to prevent flow of surface water into the landfill cell;
- b) Complete installation of a temporary bund to prevent flow of surface water into surface water drains or sediment ponds at the Premises;
- c) Complete the installation of appropriate sediment and erosion measures in drainage channels and landfill batters at the Premises. This may include silt fences, contour bunds, check dams to be installed, hay bales and lining of drainage channels with suitable material;
- d) Ensure that at least 50% volume freeboard capacity is maintained within the existing sediment basins, however following a significant rain event, the 50% volume freeboard capacity must be reinstated within 72 hours after that rain event;



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- e) The installation of the surface water diversion line described as “Drain 2” on Figure 6: Proposed location of sediment basin and drainage channels project ID CES090607-CMW dated 3 May 2010;
- f) The installation of leachate pond in accordance with details provided within diagrams and information provided in Condition A4.2 of this Licence;
- g) The installation of a height marker within the leachate pond; and
- h) The installation of a level sensor to detect the leachate level within the leachate pond.

Note: Licence condition E4.1 (e), (g) and (h) (above) relates to the leachate pond associated with landfill cell W and is depicted as “leachate holding dam” in Figure 5: Staging and Layout of remaining cells, CES project ID: CES090706-CMW dated 15 November 2009.

## E5 Sediment and Erosion Control Works.

E5.1 The Licensee must complete the following works by no later than 30 September 2010;

- a) Installation of drainage diversion drains at the Premises, including the Construction of Drain 1 described as the “Drain 1” on Figure 6: Proposed location of sediment basin and drainage channels project ID CES090607- CMW dated 3 May 2010 (“the new sediment basins”);
- b) Construction of a sedimentation basin described as the “new sediment basin(s)” on Figure 6: Proposed location of sediment basin and drainage channels project ID CES090607- CMW dated 3 May 2010 (“the new sediment basins”); and
- c) The installation of the new sediment basin in accordance with details provided within diagrams and information provided in A4.2 (a) and (b).

## E6 Assessment of Existing Sediment Basin.

- E6.1 The Licensee must assess the structural integrity of the existing sedimentation basin at the Premises (described as “existing sediment basin” on Figure 6: proposed location of sediment basin and drainage channels project ID: CES090607- CMW dated 3 May 2010). This assessment must determine whether the existing sediment basin has sufficient capacity to capture surface waters at the Premises as required by the licence and to be able to meet the discharge limits.
- E6.2 The Licensee must provide a written report to the EPA outlining the findings of the assessment of the structural integrity of the “existing sediment basin” and provide details of any recommended works for the upgrade of the existing sediment basin by Wednesday 15 September 2010.

## E7 Leachate Pond Lining.

- E7.1 The Leachate Pond lining must be installed in accordance with Condition A4.2 (a) & (b) of this licence.

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## **E8 Construction of Leachate Barrier and Leachate Collection Systmes- Cells W, X, Y & Z.**

E8.1 The Licensee must install the leachate barrier systems and leachate collection and conveyance systems for Cells W, X, Y and Z in accordance with the specifications and procedures detailed in the reports titled "Leachate Management Plan" (dated 30 November 2009) prepared by Consulting Earth Scientists and "Soil and Water Management Plan & Additional Information" (dated 11 May 2010) prepared by Consulting Earth Scientists.

## **E9 Construction of Quality Assurance Reports- Cells W, X, Y & Z.**

E9.1 Within 60 days of completion of installation of the leachate barrier and leachate collection and conveyance systems of each Cell, the Licensee must provide the EPA with a separate Construction Quality Assurance (CQA) Report for each cell. The CQA Report must address the following matters, at a minimum:

- a) The inspection and testing measures identified in the report titled "Leachate Management Plan" (dated 30 November 2009) prepared by Consulting Earth Scientists;
- b) Confirmation that the works required by the general conditions and the conditions for the construction and installation of the leachate barrier and leachate collection and conveyance systems were installed;
- c) "As constructed" drawings (prepared from field surveys) which depict in plan view the works specified in the report titled "Leachate Management Plan" (dated 30 November 2009) prepared by Consulting Earth Scientists; and
- d) The provision of a report to the EPA with documentary evidence that the works and testing required by the above parts of this condition have been completed, with the report reviewed and approved by a suitably qualified person (e.g. a chartered professional engineer with the Institute of Engineers Australia).

E9.2 Approval to place waste in Cells W, X, Y and Z will be subject to the EPA being provided with the CQA Report (as specified in Condition E9.1) and being satisfied that based on the information provided, the leachate barrier system and leachate collection and conveyance system for Cells W, X, Y and Z have been installed in accordance with the licence.



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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 Grahame Clarke

Environment Protection Authority

(By Delegation)

Date of this edition: 21-November-2001

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## End Notes

- 1 Licence varied by notice 1016143, issued on 05-Apr-2002, which came into effect on 30-Apr-2002.
- 2 Licence varied by notice 1026138, issued on 11-Jul-2003, which came into effect on 05-Aug-2003.
- 3 Licence varied by notice 1037165, issued on 09-Sep-2004, which came into effect on 04-Oct-2004.
- 4 Licence varied by notice 1058794, issued on 27-Apr-2006, which came into effect on 27-Apr-2006.
- 5 Licence varied by change to DEC region, issued on 06-Feb-2007, which came into effect on 06-Feb-2007.
- 6 Licence transferred through application 145349, approved on 04-Feb-2008, which came into effect on 01-Nov-2007.
- 7 Licence varied by notice 1082616, issued on 19-Jun-2008, which came into effect on 19-Jun-2008.
- 8 Licence varied by notice 1092611, issued on 03-Oct-2008, which came into effect on 03-Oct-2008.
- 9 Condition A1.3 Not applicable varied by notice issued on <issue date> which came into effect on <effective date>
- 10 Licence varied by notice 1095220, issued on 08-Dec-2008, which came into effect on 08-Dec-2008.
- 11 Licence varied by notice 1098239, issued on 13-May-2009, which came into effect on 13-May-2009.
- 12 Licence varied by notice 1113839, issued on 29-Jun-2010, which came into effect on 29-Jun-2010.
- 13 Licence varied by notice 1116790, issued on 09-Jul-2010, which came into effect on 09-Jul-2010.
- 14 Licence varied by notice 1118489, issued on 30-Aug-2010, which came into effect on 30-Aug-2010.
- 15 Licence varied by notice 1502546 issued on 07-Nov-2011
- 16 Licence varied by notice 1505440 issued on 03-May-2012