



Environment Protection Licence

Licence - 5927

Licence Details	
Number:	5927
Anniversary Date:	13-October

Licensee
SINGLETON COUNCIL
PO BOX 314
SINGLETON NSW 2330

Premises
SINGLETON WASTE DEPOT
DYRRING ROAD
SINGLETON NSW 2330

Scheduled Activity
Waste disposal (application to land)

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

Region
Waste & Resource Recovery
59-61 Goulburn Street
SYDNEY NSW 2000
Phone: (02) 9995 5000
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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:

SINGLETON COUNCIL
PO BOX 314
SINGLETON NSW 2330

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 capacity

A2 Premises or plant to which this licence applies

A2.1 The licence applies to the following premises:

Premises Details
SINGLETON WASTE DEPOT
DYRRING ROAD
SINGLETON
NSW 2330
LOT 1865 OF DP 850166 AND LOT 262 OF DP 752455

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:

- 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.

A3.2 The Singleton Landfill "Landfill Environmental Management Plan - February 1998" is not to be taken as part of the documentation in A4.1, other than those parts specifically referenced in this licence.

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2 Discharges to Air and Water and Applications to Land

P1 Location of monitoring/discharge points and areas

P1.1 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.

P1.2 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	Groundwater Water Quality Monitoring Point		Point MW3 on plan titled "Singleton Waste Depot Premises Boundary & Monitoring Points" dated April 2010 and submitted to the EPA on 2 July 2010. Easting 331486 Northing 6396850
2	Groundwater Water Quality Monitoring Point		Point MW4 on plan titled "Singleton Waste Depot Premises Boundary & Monitoring Points" dated April 2010 and submitted to the EPA on 2 July 2010. Easting 331486 Northing 6396849
5	Groundwater quality monitoring point		Point MW5 on plan titled "Singleton Waste Depot Premises Boundary & Monitoring Points" dated April 2010 and submitted to the EPA on 2 July 2010 Easting 331410 Northing 6396753
6	Groundwater quality monitoring point		Point MW6 on plan titled "Singleton Waste Depot Premises Boundary & Monitoring Points" dated April 2010 and submitted to the EPA on 2 July 2010. Easting 331655 Northing 6396668
7	Groundwater quality monitoring		Point MW7 on plan titled "Singleton Waste Depot Premises Boundary & Monitoring Points" dated April 2010 and submitted to the EPA on 2 July 2010. Easting 331548 Northing 6396862

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8	Groundwater quality monitoring point	Point MW8 on plan titled "Singleton Waste Depot Premises Boundary & Monitoring Points" dated April 2010 and submitted to the EPA on 2 July 2010. Easting 331902 Northing 6397337
9	Landfill leachate quality monitoring point	Point MW9 on plan titled "Singleton Waste Depot Premises Boundary & Monitoring Points" dated April 2010 and submitted to the EPA on 2 July 2010. Easting 331521 Northing 6396668

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 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.

Code	Waste	Description	Activity	Other Limits
NA	General solid waste (non-putrescible)	As defined in Schedule 1 of the POEO Act, in force from time to time.	Waste disposal (application to land)	The total combined tonnage of General Solid Waste (non-putrescible), General Solid Waste (putrescible) and Asbestos Waste disposed of at the premises must not exceed 30000 tonnes/per annum.

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NA	General solid waste (putrescible)	As defined in Schedule 1 of the POEO Act, in force from time to time.	Waste disposal (application to land)	The total combined tonnage of General Solid Waste (non-putrescible), General Solid Waste (putrescible) and Asbestos Waste disposed of at the premises must not exceed 30000 tonnes/per annum.
NA	Asbestos waste	As defined in Schedule 1 of the POEO Act, in force from time to time.	Waste disposal (application to land)	The total combined tonnage of General Solid Waste (non-putrescible), General Solid Waste (putrescible) and Asbestos Waste disposed of at the premises must not exceed 30000 tonnes/per annum.
NA	Waste	Any waste received on site that is below licensing thresholds in Schedule 1 of the POEO Act, as in force from time to time	-	NA

L3 Noise limits

- L3.1 Noise generated by the premises must not exceed:
 a) 41 dB(A) LAeq(15 minute) during the day (7am to 6pm Monday to Friday and 8:00am to 6:00pm on Saturday and Sunday).

at all affected residential receivers which are not owned by the licensee.

Where LAeq means the equivalent continuous noise level – the level of noise equivalent to the energy-average of noise levels occurring over a measurement period.

- L3.2 To determine compliance with condition L6.1 noise must be measured at the most affected point on or within the residential boundary or at the most affected point within 30m of the dwelling (rural dwellings) where the dwelling is more than 30m from the boundary.

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A modifying factor correction must be applied for tonal, impulsive or intermittent noise in accordance with the "Environmental Noise Management - NSW Industrial Noise Policy (January 2000)".

- L3.3 The noise emission limits identified in this licence apply under all meteorological conditions except:
- a) during rain and wind speeds (at 10m height) greater than 3m/s; and
 - b) under "non-significant weather conditions".

Note: Field meteorological indicators for non-significant weather conditions are described in the NSW Industrial Noise Policy, Chapter 5 and Appendix E in relation to wind and temperature inversions.

L4 Hours of operation

- L4.1 All landfilling and associated activities at the premises must only be conducted between 7:00am and 6:00pm Monday to Friday and 8:00am and 6:00pm on Saturdays and Sundays.

L5 Potentially offensive odour

- L5.1 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.

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.

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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 extinguish fires at the premises as soon as possible.
- O4.2 The licensee must have adequate fire prevention measures in place, and ensure that facility personnel are able to access fire-fighting equipment and manage fire outbreaks at any part of the premises in accordance with the LEMP.

O5 Processes and management

- O5.1 The leachate holding ponds must be maintained to ensure that their design capacity is available for the storage of 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 The licensee must take all practicable steps to control entry to the premises.
- O5.4 The licensee must maintain a high wire mesh fence of not less than 1.8 metres around the active tipping area.
- O5.5 The licensee must maintain lockable security gates at all access and departure locations.
- O5.6 The licensee must ensure that all gates are locked whenever the landfill is unattended.
- O5.7 The licensee must control pests, vermin and weeds at the premises in accordance with the LEMP.
- O5.8 The licensee must ensure that adequately trained staff are available at the premises in order to administer the requirements of this licence.

O6 Waste management

- O6.1 The total quantity of used, rejected or unwanted tyres (including shredded tyres and tyre pieces) stockpiled at the premises must not exceed 50 tonnes.
- O6.2 The licensee must ensure that stockpiles of used, rejected or unwanted tyres (including shredded tyres and tyre pieces) are located in a clearly defined area.
- O6.3 The licensee must ensure that stockpiles of used, rejected or unwanted tyres (including shredded tyres

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and tyre pieces) are managed so as not to cause or to be likely to cause the spread of disease by vermin.

- O6.4 The licensee must ensure that measures are taken to prevent stockpiles of used, rejected or unwanted tyres (including shredded tyres and tyre pieces) from catching on fire.
- O6.5 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.
- O6.6 Tyres from the Sydney Metropolitan Area must not be received at the premises unless:
- a) they have been shredded into pieces measuring no more than 250mm in any direction; or
 - b) they have had their walls removed; or
 - c) the facility has the capacity, at the time of receiving the tyres, to recycle or reprocess the tyres into a saleable product (including retreading the tyres); or
 - d) the facility has the capacity, at the time of receiving the tyres, to shred the tyres or remove the walls from the tyres; or
 - e) the tyres are from a domestic load containing no more than 5 tyres having a diameter of less than 1.2 metres.
- O6.7 A leachate barrier must be installed on each surface within the premises to be used for the disposal of waste.
- O6.8 The leachate barrier system must be installed above the groundwater table.
- O6.9 Surface drainage must be diverted away from any area where waste is being or has been landfilled.
- O6.10 A leachate barrier system must be installed on each surface within the premises to be used for the storage of leachate.
- O6.11 The leachate level in the leachate sump(s) in the landfill extension areas and Stage 3 trench area must not rise above 300mm from the base of the sumps.
- O6.12 There must be no incineration or burning of any waste at the premises.
- O6.13 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.
- O6.14 The licensee must ensure that the estimated compaction rate of landfilled waste (excluding cover material) is stated in the annual report for the waste premises submitted to the EPA.
- O6.15 The licensee must manage the disposal of waste at the premises in accordance with the progressive filling plan identified in the LEMP.
- O6.16 The licensee must ensure that the landfill cells are capped progressively during operations and specifically at times when the level of waste reaches final heights as detailed in the LEMP.
- O6.17 The licensee must minimise the tracking of waste and mud by vehicles in accordance with the LEMP.

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O6.18 Cover material must be virgin excavated natural material (VENM) or Alternative Daily Cover consisting of Concover as approved by the EPA.

a) Daily cover

Cover material must be applied over all exposed landfilled waste prior to ceasing operations at the end of each day. VENM must be applied to a minimum depth of 15 centimetres.

b) Intermediate cover

Cover material must be applied to a depth of 30 centimeters 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.

O7 Other operating conditions

O7.1 The licensee must install and operate a cut-off trench to intercept contaminated groundwater.

O7.2 The licensee must manage contaminated groundwater collected by the cut-off trench in the same manner as leachate.

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:

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M2.2 Water and/ or Land Monitoring Requirements

POINT 1

Pollutant	Units of measure	Frequency	Sampling Method
Alkalinity (as calcium carbonate)	milligrams per litre	Yearly	Grab sample
Aluminium	milligrams per litre	Yearly	Grab sample
Ammonia	milligrams per litre	Yearly	Grab sample
Arsenic	milligrams per litre	Yearly	Grab sample
Barium	milligrams per litre	Yearly	Grab sample
BOD	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
Conductivity	microsiemens per centimetre	Yearly	Grab sample
Copper	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
Mercury	milligrams per litre	Yearly	Grab sample
Nitrate	milligrams per litre	Yearly	Grab sample
pH	pH	Yearly	Grab sample
Potassium	milligrams per litre	Yearly	Grab sample
Sodium	milligrams per litre	Yearly	Grab sample
Sulfate	milligrams per litre	Yearly	Grab sample
Total dissolved solids	milligrams per litre	Yearly	Grab sample
Total Iron	milligrams per litre	Yearly	Grab sample
Total manganese	milligrams per litre	Yearly	Grab sample
Total organic carbon	milligrams per litre	Yearly	Grab sample
Total PAHs	micrograms per litre	Yearly	Grab sample
Total petroleum hydrocarbons	micrograms per litre	Yearly	Grab sample
Total Phenolics	micrograms per litre	Yearly	Grab sample
Zinc	milligrams per litre	Yearly	Grab sample

POINT 2

Pollutant	Units of measure	Frequency	Sampling Method
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Alkalinity (as calcium carbonate)	milligrams per litre	Quarterly	Grab sample
Aluminium	milligrams per litre	Yearly	Grab sample
Ammonia	milligrams per litre	Quarterly	Grab sample
Arsenic	milligrams per litre	Yearly	Grab sample
Barium	milligrams per litre	Yearly	Grab sample
BOD	milligrams per litre	Quarterly	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
Conductivity	microsiemens per centimetre	Quarterly	Grab sample
Copper	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
Mercury	milligrams per litre	Yearly	Grab sample
Nitrate	milligrams per litre	Quarterly	Grab sample
pH	pH	Quarterly	Grab sample
Potassium	milligrams per litre	Quarterly	Grab sample
Sodium	milligrams per litre	Yearly	Grab sample
Sulfate	milligrams per litre	Yearly	Grab sample
Total dissolved solids	milligrams per litre	Yearly	Grab sample
Total Iron	milligrams per litre	Yearly	Grab sample
Total manganese	milligrams per litre	Yearly	Grab sample
Total organic carbon	milligrams per litre	Quarterly	Grab sample
Total PAHs	micrograms per litre	Quarterly	Grab sample
Total petroleum hydrocarbons	micrograms per litre	Quarterly	Grab sample
Total Phenolics	micrograms per litre	Quarterly	Grab sample
Zinc	milligrams per litre	Yearly	Grab sample

POINT 5

Pollutant	Units of measure	Frequency	Sampling Method
Alkalinity (as calcium carbonate)	milligrams per litre	Quarterly	Grab sample
Aluminium	milligrams per litre	Yearly	Grab sample
Ammonia	milligrams per litre	Quarterly	Grab sample
Arsenic	milligrams per litre	Yearly	Grab sample
Barium	milligrams per litre	Yearly	Grab sample
BOD	milligrams per litre	Quarterly	Grab sample
Cadmium	milligrams per litre	Yearly	Grab sample

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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
Conductivity	microsiemens per centimetre	Quarterly	Grab sample
Copper	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
Nitrate	milligrams per litre	Quarterly	Grab sample
pH	pH	Quarterly	Grab sample
Potassium	milligrams per litre	Quarterly	Grab sample
Sodium	milligrams per litre	Yearly	Grab sample
Sulfate	milligrams per litre	Yearly	Grab sample
Total dissolved solids	milligrams per litre	Yearly	Grab sample
Total Iron	milligrams per litre	Yearly	Grab sample
Total manganese	milligrams per litre	Yearly	Grab sample
Total organic carbon	milligrams per litre	Quarterly	Grab sample
Total PAHs	micrograms per litre	Quarterly	Grab sample
Total petroleum hydrocarbons	micrograms per litre	Quarterly	Grab sample
Total Phenolics	micrograms per litre	Quarterly	Grab sample
Zinc	milligrams per litre	Yearly	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
BOD	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
Conductivity	microsiemens per centimetre	Yearly	Grab sample
Copper	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

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Mercury	milligrams per litre	Yearly	Grab sample
Nitrate	milligrams per litre	Yearly	Grab sample
Nitrogen (ammonia)	milligrams per litre	Yearly	Grab sample
pH	pH	Yearly	Grab sample
Phenols	micrograms per litre	Yearly	Grab sample
Polycyclic aromatic hydrocarbons	micrograms 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
Total dissolved solids	milligrams per litre	Yearly	Grab sample
Total Iron	milligrams per litre	Yearly	Grab sample
Total manganese	milligrams per litre	Yearly	Grab sample
Total organic carbon	milligrams per litre	Yearly	Grab sample
Total petroleum hydrocarbons	micrograms per litre	Yearly	Grab sample
Zinc	milligrams per litre	Yearly	Grab sample

POINT 7

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
BOD	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
Conductivity	microsiemens per centimetre	Yearly	Grab sample
Copper	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
Mercury	milligrams per litre	Yearly	Grab sample
Nitrate	milligrams per litre	Yearly	Grab sample
Nitrogen (ammonia)	milligrams per litre	Yearly	Grab sample
pH	pH	Yearly	Grab sample
Phenols	micrograms per litre	Yearly	Grab sample
Polycyclic aromatic hydrocarbons	micrograms per litre	Yearly	Grab sample
Potassium	milligrams per litre	Yearly	Grab sample

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Sodium	milligrams per litre	Yearly	Grab sample
Sulfate	milligrams per litre	Yearly	Grab sample
Total dissolved solids	milligrams per litre	Yearly	Grab sample
Total Iron	milligrams per litre	Yearly	Grab sample
Total manganese	milligrams per litre	Yearly	Grab sample
Total organic carbon	milligrams per litre	Yearly	Grab sample
Total petroleum hydrocarbons	micrograms per litre	Yearly	Grab sample
Zinc	milligrams per litre	Yearly	Grab sample

POINT 8

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
Biochemical oxygen demand	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
Conductivity	microsiemens per centimetre	Yearly	Grab sample
Copper	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
Mercury	milligrams per litre	Yearly	Grab sample
Nitrate	milligrams per litre	Yearly	Grab sample
Nitrogen (ammonia)	milligrams per litre	Yearly	Grab sample
pH	pH	Yearly	Grab sample
Phenols	micrograms per litre	Yearly	Grab sample
Polycyclic aromatic hydrocarbons	micrograms 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
Total dissolved solids	milligrams per litre	Yearly	Grab sample
Total Iron	milligrams per litre	Yearly	Grab sample
Total manganese	milligrams per litre	Yearly	Grab sample
Total organic carbon	milligrams per litre	Yearly	Grab sample

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Total petroleum hydrocarbons	micrograms per litre	Yearly	Grab sample
Zinc	milligrams per litre	Yearly	Grab sample

POINT 9

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
BOD	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
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
Conductivity	microsiemens per centimetre	Yearly	Grab sample
Copper	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
Mercury	milligrams per litre	Yearly	Grab sample
Nitrate	milligrams per litre	Yearly	Grab sample
Nitrogen (ammonia)	milligrams per litre	Yearly	Grab sample
Organochlorine pesticides	micrograms per litre	Yearly	Grab sample
Organophosphate pesticides	micrograms per litre	Yearly	Grab sample
PCBs	micrograms per litre	Yearly	Grab sample
pH	pH	Yearly	Grab sample
Phenols	micrograms per litre	Yearly	Grab sample
Polycyclic aromatic hydrocarbons	micrograms 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
Total dissolved solids	milligrams per litre	Yearly	Grab sample
Total Iron	milligrams per litre	Yearly	Grab sample
Total manganese	milligrams per litre	Yearly	Grab sample
Total organic carbon	milligrams per litre	Yearly	Grab sample

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Total petroleum hydrocarbons	micrograms per litre	Yearly	Grab sample
Zinc	milligrams per litre	Yearly	Grab sample

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:
- 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.
- 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: the date of the issue of this licence.

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M6 Other monitoring and recording conditions

- M6.1 A gas monitoring program must be implemented which will demonstrate that landfill gas that may pose an explosive hazard is not migrating from the facility.

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:

1. a Statement of Compliance,
2. a Monitoring and Complaints Summary,
3. a Statement of Compliance - Licence Conditions,
4. a Statement of Compliance - Load based Fee,
5. a Statement of Compliance - Requirement to Prepare Pollution Incident Response Management Plan,
6. a Statement of Compliance - Requirement to Publish Pollution Monitoring Data; and
7. a Statement of Compliance - Environmental Management Systems and Practices.

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 via eConnect *EPA* or 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 Statements of Compliance must be certified and the Monitoring and Complaints Summary must be signed by:

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- 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.

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.

R2.3

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

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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:

- Time and date when the fire was deliberately started or reported.
- Whether the fire was authorised by the licensee, and, if not, the circumstances which ignited the fire.
- The time and date that the fire ceased and whether it burnt out or was extinguished.
- The location of fire (eg. clean timber stockpile, putrescible garbage cell, etc).
- Prevailing weather conditions.
- Observations made in regard to smoke direction and dispersion.
- The amount of waste that was combusted by the fire.
- 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.

R4.3 Further investigation of possible groundwater contamination by leachate must be undertaken if the threshold values prescribed in the table below are exceeded for one or more of the parameters listed in the table below.

Leachate Indicator Parameter	Threshold Value	Threshold Value
	Point 2	Point 5
Ammonia	2.8mg/L	1.3mg/L
Total PHAs	8ug/L	8ug/L
Total Phenolics	320ug/L	320ug/L
Nitrate	70ug/L	480ug/L
Potassium	82mg/L	48mg/L
Total Organic Carbon	79mg/L	43mg/L

R4.4 For the purposes of Condition R4.3 the following investigations must be taken if any threshold value for a leachate indicator parameter is exceeded:

- Levels of all other leachate indicator parameters must be assessed to determine whether there has been a significant increase in one or more leachate indicator parameters. If only one parameter has exceeded the threshold value this fact must be reported to the EPA within 28 days of the result becoming known and routine monitoring must continue and further assessment must be undertaken following the next monitoring round.

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b) If the assessment described in (a) above shows that there has been an increase in the levels of multiple leachate indicator parameters, then re-sampling of the site(s) must be undertaken within 14 days to confirm the presence of leachate indicator parameters at levels above the threshold values. If results of the re-sampling do not detect elevated levels of the leachate indicator parameters, this fact must be reported to the EPA within 28 days of the result becoming known. Routine monitoring must continue and further assessment must be undertaken following the next monitoring round.

c) Should the result of the additional sampling indicated in (b) above confirm the presence of multiple leachate indicator parameters in excess of the threshold levels, then an investigation must commence to determine the source and pathway of the contamination. The EPA must be notified within twenty eight (28) days of the results becoming known and be provided with a groundwater assessment plan which identifies the specific contaminants and the extent of pollution of groundwater and must include recommendations for the remediation of contaminated groundwater.

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 Special Conditions

E1 SCHEDULED DEVELOPMENT WORKS

- E1.1 The following Scheduled Development Works conditions relate to works and activities described in and approved by Development Consent 82/2003 for the Singleton Landfill Extension.
- E1.2 The compacted clay barriers in trench area 3 and the landfill extension area (as described in development application 82/2003) must be on 900mm minimal thickness and have an in-situ coefficient of permeability less than 10^{-9} m/s.
- E1.3 The compacted clay barriers in trench area 3 and the landfill extension areas must have transverse gradients of greater than three percent and longitudinal gradients of greater than one percent.
- E1.4 The leachate drainage layer in the landfill extension area must be constructed in accordance with Figure 4.7 of the LEMP contained within the document "Singleton Council - Extension of Singleton Council Landfill Environmental Impact Statement Volume 2 – Appendices" prepared by GHD Consultants and dated October 2002. The gravel drainage media in the drainage layer must be rounded, smooth surfaced, non-reactive in mildly acidic conditions, free of carbonates, of grain size greater than 20mm and have an in-site coefficient of permeability greater than 1×10^{-3} m/s. Crushed building and demolition waste, or

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other alternative media, may only be used if the applicant has prior written approval from the EPA.

- E1.5 The slotted UPVC drainage pipes within the leachate drainage layer in the landfill extension area must be placed at intervals not greater than 50m.
- E1.6 All leachate storage dams must be lined with a barrier that has a leakage rate less than or equal to 1150 litres/hectare/day.
- E1.7 Pump interlock systems must be installed on all leachate storage dams. The systems must be configured such that any pump transferring leachate to a dam is automatically shut down when the freeboard in the dam is reduced to 300mm.

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Dictionary

General Dictionary

3DGM [in relation to a concentration limit]	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
Act	Means the Protection of the Environment Operations Act 1997
activity	Means a scheduled or non-scheduled activity within the meaning of the Protection of the Environment Operations Act 1997
actual load	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
AM	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> .
AMG	Australian Map Grid
anniversary date	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.
annual return	Is defined in R1.1
Approved Methods Publication	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
assessable pollutants	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
BOD	Means biochemical oxygen demand
CEM	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> .
COD	Means chemical oxygen demand
composite sample	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.
cond.	Means conductivity
environment	Has the same meaning as in the Protection of the Environment Operations Act 1997
environment protection legislation	Has the same meaning as in the Protection of the Environment Administration Act 1991
EPA	Means Environment Protection Authority of New South Wales.
fee-based activity classification	Means the numbered short descriptions in Schedule 1 of the Protection of the Environment Operations (General) Regulation 2009.
general solid waste (non-putrescible)	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997

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flow weighted composite sample	Means a sample whose composites are sized in proportion to the flow at each composites time of collection.
general solid waste (putrescible)	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
grab sample	Means a single sample taken at a point at a single time
hazardous waste	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
licensee	Means the licence holder described at the front of this licence
load calculation protocol	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
local authority	Has the same meaning as in the Protection of the Environment Operations Act 1997
material harm	Has the same meaning as in section 147 Protection of the Environment Operations Act 1997
MBAS	Means methylene blue active substances
Minister	Means the Minister administering the Protection of the Environment Operations Act 1997
mobile plant	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
motor vehicle	Has the same meaning as in the Protection of the Environment Operations Act 1997
O&G	Means oil and grease
percentile [in relation to a concentration limit of a sample]	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.
plant	Includes all plant within the meaning of the Protection of the Environment Operations Act 1997 as well as motor vehicles.
pollution of waters [or water pollution]	Has the same meaning as in the Protection of the Environment Operations Act 1997
premises	Means the premises described in condition A2.1
public authority	Has the same meaning as in the Protection of the Environment Operations Act 1997
regional office	Means the relevant EPA office referred to in the Contacting the EPA document accompanying this licence
reporting period	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.
restricted solid waste	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
scheduled activity	Means an activity listed in Schedule 1 of the Protection of the Environment Operations Act 1997
special waste	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
TM	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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TSP	Means total suspended particles
TSS	Means total suspended solids
Type 1 substance	Means the elements antimony, arsenic, cadmium, lead or mercury or any compound containing one or more of those elements
Type 2 substance	Means the elements beryllium, chromium, cobalt, manganese, nickel, selenium, tin or vanadium or any compound containing one or more of those elements
utilisation area	Means any area shown as a utilisation area on a map submitted with the application for this licence
waste	Has the same meaning as in the Protection of the Environment Operations Act 1997
waste type	Means liquid, restricted solid waste, general solid waste (putrescible), general solid waste (non - putrescible), special waste or hazardous waste

Mr Mitchell Bennett

Environment Protection Authority

(By Delegation)

Date of this edition: 11-October-2000

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End Notes

- 1 Licence varied by notice 1002424, issued on 13-Nov-2000, which came into effect on 08-Dec-2000.
- 2 Licence varied by notice 1005707, issued on 06-Jun-2001, which came into effect on 01-Jul-2001.
- 3 Licence varied by notice 1011592, issued on 11-Oct-2001, which came into effect on 05-Nov-2001.
- 4 Licence varied by notice 1014594, issued on 23-Apr-2002, which came into effect on 18-May-2002.
- 5 Licence varied by notice 1027735, issued on 11-Jun-2003, which came into effect on 06-Jul-2003.
- 6 Licence varied by notice 1035412, issued on 03-May-2004, which came into effect on 28-May-2004.
- 7 Licence varied by notice 1045020, issued on 03-May-2005, which came into effect on 28-May-2005.
- 8 Licence varied by notice 1054160, issued on 04-May-2006, which came into effect on 04-May-2006.
- 9 Licence varied by notice 1084447, issued on 18-Jun-2008, which came into effect on 18-Jun-2008.
- 10 Condition A1.3 Not applicable varied by notice issued on <issue date> which came into effect on <effective date>
- 11 Licence varied by notice 1097235, issued on 26-Feb-2009, which came into effect on 26-Feb-2009.
- 12 Licence varied by change to DECCW region, issued on 04-Dec-2009, which came into effect on 04-Dec-2009.
- 13 Licence varied by Correction to EPA Region data record., issued on 28-Jun-2010, which came into effect on 28-Jun-2010.
- 14 Licence varied by notice 1119449, issued on 24-Jan-2011, which came into effect on 24-Jan-2011.
- 15 Licence varied by notice 1511970 issued on 08-Apr-2013
- 16 Licence varied by notice 1516514 issued on 18-Dec-2013
- 17 Licence varied by notice 1577389 issued on 18-Mar-2019