

Environment Protection Licence



Licence - 5872

Licence Details	
Number:	5872
Anniversary Date:	09-October

Licensee
RICHMOND VALLEY COUNCIL
LOCKED BAG 10
CASINO NSW 2470

Premises
NAMMOONA LANDFILL FACILITY
LOT 2 DARGAVILLE DRIVE
CASINO NSW 2470

Scheduled Activity
Waste Disposal (application to land)

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

Region
Waste Operations
59-61 Goulburn Street
SYDNEY NSW 2000
Phone: 02 9995 5000
Fax: 02 9995 5999
PO Box A290 SYDNEY SOUTH
NSW 1232

Environment Protection Licence

Licence - 5872



INFORMATION ABOUT THIS LICENCE	4
Dictionary	4
Responsibilities of licensee	4
Duration of licence	4
Licence review	4
Fees and annual return to be sent to the EPA	4
Transfer of licence	5
Public register and access to monitoring data	5
1 ADMINISTRATIVE CONDITIONS	6
A1 What the licence authorises and regulates	6
A2 Premises or plant to which this licence applies	6
A3 Information supplied to the EPA	6
2 DISCHARGES TO AIR AND WATER AND APPLICATIONS TO LAND	7
P1 Location of monitoring/discharge points and areas	7
3 LIMIT CONDITIONS	8
L1 Pollution of waters	8
L2 Concentration limits	8
L3 Waste	9
L4 Noise limits	10
L5 Potentially offensive odour	11
4 OPERATING CONDITIONS	11
O1 Activities must be carried out in a competent manner	11
O2 Maintenance of plant and equipment	11
O3 Dust	11
O4 Processes and management	11
O5 Waste management	12
O6 Other operating conditions	13
5 MONITORING AND RECORDING CONDITIONS	13
M1 Monitoring records	13
M2 Requirement to monitor concentration of pollutants discharged	14
M3 Testing methods - concentration limits	15
M4 Weather monitoring	16
M5 Recording of pollution complaints	16
M6 Telephone complaints line	16

Environment Protection Licence

Licence - 5872



6	REPORTING CONDITIONS	17
R1	Annual return documents	17
R2	Notification of environmental harm	18
R3	Written report	18
R4	Notification of bypass or overflow incidents	18
R5	Other reporting conditions	19
7	GENERAL CONDITIONS	20
G1	Copy of licence kept at the premises or plant	20
8	POLLUTION STUDIES AND REDUCTION PROGRAMS	21
U1	Surface Water Monitoring Program	21
U2	Landfill gas assessment	22
U3	Future Cell Designs	22
9	SPECIAL CONDITIONS	23
E1	Special Dictionary	23
E2	Alternative Daily Cover	23
DICTIONARY		24
	General Dictionary	24

Environment Protection Licence

Licence - 5872



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).

Environment Protection Licence

Licence - 5872



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:

RICHMOND VALLEY COUNCIL
LOCKED BAG 10
CASINO NSW 2470

subject to the conditions which follow.

Environment Protection Licence

Licence - 5872



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
NAMMOONA LANDFILL FACILITY
LOT 2 DARGAVILLE DRIVE
CASINO
NSW 2470
PART LOT 2 DP 1106028
SITE AS SHOWN ON SHEET NO. 1 PLAN NUMBER L-C-0665-1004-B SUPPLIED TO NSW ENVIRONMENT PROTECTION AUTHORITY BY RICHMOND VALLEY COUNCIL VIA E-MAIL ON 22 NOVEMBER 2011. SITE IS THE UNSHADED AREA OF LOT 2 DP 1106028 AND DOES NOT INCLUDE THE SHADED AREA MARKED AS 'RESOURCE RECOVERY AREA 2.96 HA'.

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 reports submitted to the EPA:

- (a) *Landfill Environmental Management Plan, Nammoona Drive Landfill, Casino* dated 10 October 1997;

Environment Protection Licence

Licence - 5872



and

(b) *Response to EPA Queries relating to Nammoona Drive Landfill* dated 20 August 1998,

are not to be taken as part of the documentation in A4.1, other than those parts specifically referenced in this licence.

Note: For the purposes of this licence the abbreviation 'LEMP' is defined as the document titled *Landfill Environmental Management Plan, Nammoona Drive Landfill, Casino* dated 10 October 1997 and the additional Woodward-Clyde report titled *Response to EPA Queries Relating to Nammoona Drive Landfill* dated 20 August 2008.

2 Discharges to Air and Water and Applications to Land

P1 Location of monitoring/discharge points and areas

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

<i>Air</i>			
EPA identification no.	Type of Monitoring Point	Type of Discharge Point	Location Description
6	Landfill gas generation monitoring		Surface monitoring around the perimeter of the premises
7	Landfill gas generation monitoring		At or below floor level inside all site buildings

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.

P1.3 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.

<i>Water and land</i>			
EPA Identification no.	Type of Monitoring Point	Type of Discharge Point	Location Description
1		Discharge to waters	Top of pipe in sediment basin decant structure, as specified in Figure 7 of the LEMP
2		Discharge to waters	Spillway from sedimentation basin, as specified in Figure 7 of the LEMP
3	Leachate quality monitoring.		In the leachate holding pond
4		Wet weather discharge	Decant discharge point from leachate pond, as shown in Figure 4 of the LEMP

Environment Protection Licence

Licence - 5872



5	Wet weather discharge.	Spillway discharge point from leachate pond, as specified in Figure 4 of the LEMP
8	Groundwater quality monitoring	Groundwater bore shown as MB.1 on plan titled "Nammona Landfill" dated July 1998
9	Groundwater quality monitoring	Groundwater bore shown as MB.2 on plan titled "Nammona Landfill" dated July 1998
10	Groundwater quality monitoring	Groundwater bore shown as MB.3 on plan titled "Nammona Landfill" dated July 1998
11	Groundwater quality monitoring	Groundwater bore shown as MB.4 on plan titled "Nammona Landfill" dated July 1998
12	Groundwater quality monitoring	Groundwater bore shown as MB.5 on plan titled "Nammona Landfill" dated July 1998

3 Limit Conditions

L1 Pollution of waters

- L1.1 Except as may be expressly provided in any other condition of this licence, the licensee must comply with section 120 of the Protection of the Environment Operations Act 1997.
- L1.2 Leachate is only permitted to overflow from the leachate management system as a direct result of a rainfall event of equal to or greater than a 1 in 25 year 24 hour duration rainfall event and only from the following points: Points 4 and 5.

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

Environment Protection Licence

Licence - 5872



POINT 1

Pollutant	Units of Measure	50 percentile concentration limit	90 percentile concentration limit	3DGM concentration limit	100 percentile concentration limit
Total suspended solids	milligrams per litre				50

POINT 2

Pollutant	Units of Measure	50 percentile concentration limit	90 percentile concentration limit	3DGM concentration limit	100 percentile concentration limit
Total suspended solids	milligrams per litre				50

L2.5 The licensee is not taken to have exceeded a concentration limit specified in this licence for the discharge of Total Suspended Solids from Point 1 and/or Point 2 if:

- (a) the discharge from Point 1 and/or Point 2 occurs solely as a result of a rainfall event at the premises that is greater than 1 in 10 years 6-hours duration; and
- (b) the licensee has taken all practical measures to avoid or minimise water pollution

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 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 (putrescible)	As defined in Schedule 1 of the POEO Act, in force from time to time	Waste disposal (application to land)	The total tonnage of waste disposed of at the premises must not exceed 28,000 tonnes per annum.
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 tonnage of waste disposed of at the premises

Environment Protection Licence

Licence - 5872



				must not exceed 28,000 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 tonnage of waste disposed of at the premises must not exceed 28,000 tonnes per annum.
NA	Waste tyres	As defined in Schedule 1 of the POEO Act, in force from time to time	Waste disposal (application to land)	The total tonnage of waste disposed of at the premises must not exceed 28,000 tonnes per annum.
NA	General solid waste (non-putrescible)	Wastes assessed as General Solid Waste which are also subject to general or specific immobilisation approvals which have a restriction that they may only be disposed of at waste disposal facilities which have currently operating leachate collection systems.	Waste disposal (application to land)	The total tonnage of waste disposed of at the premises must not exceed 28,000 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

L3.2 The licensee must not cause, permit or allow any waste to be received at the premises, except the wastes expressly referred to in the column titled "Waste" and meeting the definition, if any, in the column titled "Description" in the table below.

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

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

Condition L5.1 does not limit any other conditions in this licence.

L4 Noise limits

L4.1 Noise from the premises must not exceed:

- (a) an LA10 (15 minute) noise emission criterion of 55dB(A) seven days a week from 7am to 10pm inclusive; and
- (b) An LA10 (15 minute) noise emission criterion of 45dB(A) at all other times, except as expressly provided by this licence.

Environment Protection Licence

Licence - 5872



- L4.2 Noise from the premises is to be measured at any point within six metres of the nearest affected residence or other noise sensitive areas in the vicinity of the premises to determine compliance with condition L4.1. Five dB(A) must be added if the noise is tonal or impulsive in character.

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.

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 Processes and management

- O4.1 The sedimentation basin and leachate holding dams must be maintained to ensure that their design capacity is available for the storage of stormwater and leachate respectively.
- O4.2 The licensee must take all practicable steps to control entry to the premises.

Environment Protection Licence

Licence - 5872



O4.3 The licensee must install and maintain lockable security gates at all access and departure locations.

O4.4 The licensee must ensure that all gates are locked whenever the landfill is unattended.

O5 Waste management

O5.1 Cover material must be virgin excavated natural materials, clean earthen fill and/or mulched vegetation, unless otherwise approved 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.

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.

O5.2 There must be no incineration or burning of any waste at the premises.

O5.3 Mulched vegetation may be used as daily cover material only during periods of wet weather.

O5.4 The licensee must take all practical measures to prevent litter leaving the premises.

O5.5 A leachate barrier system as described in Section 2.1.3 of the LEMP and leachate collection system described in Section 2.2.3 of the LEMP must be installed on each surface within the premises to be used for the emplacement of waste. This condition does not apply to Cells 1, 2 and 3, as described in Figure 5 of the LEMP.

O5.6 A leachate barrier system as described in Section 2.2.3 of the LEMP must be installed on each surface within the premises to be used for the storage of leachate.

O5.7 The liner and liner subgrade must be installed at least 1.0 metre above the groundwater table at its highest seasonal level.

O5.8 The licensee must take all practical measures to minimise amount of leachate in the leachate management system to enable compliance with condition L1.1 to L1.2 of this licence.

O5.9 Leachate collected in the leachate collection system may be irrigated onto waste filled areas of the premises, reinjected into waste filled areas of the premises and transported off-site to a facility lawfully able to receive the waste.

O5.10 Leachate irrigation must not occur in a manner which causes surface runoff.

O5.11 Spray from leachate irrigation activity must not drift beyond the boundary of the premises.

Environment Protection Licence

Licence - 5872



- O5.12 The licensee must operate in accordance with the filling plan detailed in Section 4.8 of the LEMP.
- O5.13 The licensee must ensure that the landfill cells are capped progressively and in accordance with condition O5.14 when the level of waste reaches final heights as detailed in Figure 11 of the LEMP.
- O5.14 Final capping must comprise four layers in the order of installation: a seal bearing surface, a sealing layer, an infiltration layer and the revegetation layer. The capping must meet the performance and design criteria in the document *Environmental Guidelines: Solid Waste Landfills (1996)*.
- O5.15 Stormwater from rainfall of up to a 1 in 10 year recurrence interval event of 24 hours duration must be diverted away from any area used for irrigation of leachate.

O6 Other operating conditions

- O6.1 The licensee must install the leachate collection system/leachate barrier system/capping system at the premises in accordance with the quality assurance program HB90.3 (2000) or an alternative construction quality assurance scheme approved in writing by the EPA in advance of installation..
- O6.2 The sedimentation basin and leachate holding dams must be maintained to ensure that their design capacity is available for the storage of stormwater and leachate respectively.
- O6.3 The licensee must ensure that all practical measures are taken to prevent fires occurring at the premises.
- O6.4 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, in accordance with Section 4.2 of the LEMP.
- O6.5 The sedimentation basin must be operated and maintained so as to collect and impound all surface water runoff from, or generated by, a storm event of 1 in 10 year recurrence interval of 6 hours duration.

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;

Environment Protection Licence

Licence - 5872



- c) the point at which the sample was taken; and
- d) the name of the person who collected the sample.

M2 Requirement to monitor concentration of pollutants discharged

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

M2.2 Air Monitoring Requirements

POINT 6

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

POINT 7

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

Note: For the purposes of the table above, Special Method 1 means the collection of samples using the methodology for gas monitoring described in the Woodward-Clyde report dated 20 August 1998.

M2.3 Water and/ or Land Monitoring Requirements

POINT 3

Pollutant	Units of measure	Frequency	Sampling Method
Ammonia	milligrams per litre	Quarterly	Grab sample
Arsenic	milligrams per litre	Quarterly	Grab sample
Bicarbonate	milligrams per litre	Quarterly	Grab sample
Calcium	milligrams per litre	Quarterly	Grab sample
Chloride	milligrams per litre	Quarterly	Grab sample
Chromium (total)	milligrams per litre	Quarterly	Grab sample
Conductivity	microsiemens per centimetre	Quarterly	Grab sample
Copper	milligrams per litre	Quarterly	Grab sample
Dissolved organic carbon	milligrams per litre	Quarterly	Grab sample
Dissolved Oxygen	milligrams per litre	Quarterly	Grab sample
Magnesium	milligrams per litre	Quarterly	Grab sample

Environment Protection Licence

Licence - 5872



Nitrogen (total)	milligrams per litre	Quarterly	Grab sample
Organochlorine pesticides	milligrams per litre	Quarterly	Grab sample
Organophosphate pesticides	milligrams per litre	Quarterly	Grab sample
pH	pH	Quarterly	Grab sample
Phenols	milligrams per litre	Quarterly	Grab sample
Phosphorus	milligrams per litre	Quarterly	Grab sample
Potassium	milligrams per litre	Quarterly	Grab sample
Semi-volatile organic carbons	milligrams per litre	Quarterly	Grab sample
Sodium	milligrams per litre	Quarterly	Grab sample
Sulfate	milligrams per litre	Quarterly	Grab sample
Total dissolved solids	milligrams per litre	Quarterly	Grab sample
Total petroleum hydrocarbons	milligrams per litre	Quarterly	Grab sample
Volatile organic compounds	milligrams per litre	Quarterly	Grab sample

POINT 8,9,10,11,12

Pollutant	Units of measure	Frequency	Sampling Method
Ammonia	milligrams per litre	Every 6 months	Representative sample
Dissolved organic carbon	milligrams per litre	Every 6 months	Representative sample
Nitrogen (total)	milligrams per litre	Every 6 months	Representative sample
pH	pH	Every 6 months	Representative sample
Potassium	milligrams per litre	Every 6 months	Representative sample
Total Petroleum Hydrocarbons C15-C28 Fraction	micrograms per litre	Every 6 months	Representative sample
Total Petroleum Hydrocarbons C29-C36 Fraction	micrograms per litre	Every 6 months	Representative sample

M3 Testing methods - concentration limits

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

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

Environment Protection Licence

Licence - 5872



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

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

M4 Weather monitoring

- M4.1 The licensee must monitor daily rainfall at the premises.

M5 Recording of pollution complaints

- M5.1 The licensee must keep a legible record of all complaints made to the licensee or any employee or agent of the licensee in relation to pollution arising from any activity to which this licence applies.
- M5.2 The record must include details of the following:
- a) the date and time of the complaint;
 - b) the method by which the complaint was made;
 - c) any personal details of the complainant which were provided by the complainant or, if no such details were provided, a note to that effect;
 - d) the nature of the complaint;
 - e) the action taken by the licensee in relation to the complaint, including any follow-up contact with the complainant; and
 - f) if no action was taken by the licensee, the reasons why no action was taken.
- M5.3 The record of a complaint must be kept for at least 4 years after the complaint was made.
- M5.4 The record must be produced to any authorised officer of the EPA who asks to see them.

M6 Telephone complaints line

- M6.1 The licensee must operate during its operating hours a telephone complaints line for the purpose of receiving any complaints from members of the public in relation to activities conducted at the premises or by the vehicle or mobile plant, unless otherwise specified in the licence.
- M6.2 The licensee must notify the public of the complaints line telephone number and the fact that it is a complaints line so that the impacted community knows how to make a complaint.
- M6.3 The preceding two conditions do not apply until 3 months after:
- 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.

Environment Protection Licence

Licence - 5872



6 Reporting Conditions

R1 Annual return documents

- R1.1 The licensee must complete and supply to the EPA an Annual Return in the approved form comprising:
- a) a Statement of Compliance; and
 - b) a Monitoring and Complaints Summary.
- At the end of each reporting period, the EPA will provide to the licensee a copy of the form that must be completed and returned to the EPA.
- R1.2 An Annual Return must be prepared in respect of each reporting period, except as provided below.
- R1.3 Where this licence is transferred from the licensee to a new licensee:
- a) the transferring licensee must prepare an Annual Return for the period commencing on the first day of the reporting period and ending on the date the application for the transfer of the licence to the new licensee is granted; and
 - b) the new licensee must prepare an Annual Return for the period commencing on the date the application for the transfer of the licence is granted and ending on the last day of the reporting period.
- R1.4 Where this licence is surrendered by the licensee or revoked by the EPA or Minister, the licensee must prepare an Annual Return in respect of the period commencing on the first day of the reporting period and ending on:
- a) in relation to the surrender of a licence - the date when notice in writing of approval of the surrender is given; or
 - b) in relation to the revocation of the licence - the date from which notice revoking the licence operates.
- R1.5 The Annual Return for the reporting period must be supplied to the EPA by registered post not later than 60 days after the end of each reporting period or in the case of a transferring licence not later than 60 days after the date the transfer was granted (the 'due date').
- R1.6 The licensee must retain a copy of the Annual Return supplied to the EPA for a period of at least 4 years after the Annual Return was due to be supplied to the EPA.
- R1.7 Within the Annual Return, the Statement of Compliance must be certified and the Monitoring and Complaints Summary must be signed by:
- a) the licence holder; or
 - b) by a person approved in writing by the EPA to sign on behalf of the licence holder.
- 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.

Environment Protection Licence

Licence - 5872



R2 Notification of environmental harm

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.

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.

R3 Written report

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

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

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

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

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

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

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

R4 Notification of bypass or overflow incidents

R4.1 Whenever leachate discharges to surface waters or whenever leachate discharges or overflows from the leachate collection or storage system the licensee must notify the event to the EPA in accordance with condition R4.2.

Environment Protection Licence

Licence - 5872



R4.2 The licensee must provide written details of any leachate discharge(s) to the EPA within 7 days of the date on which the incident occurred in accordance with condition R4.3.

R4.3 The written details referred to in the above condition must be provided as a report. The report must include the following information:

- a) the volume of the leachate discharged and over what time period the discharge occurred;
- b) the date and time of the commencement of the overflow;
- c) the weather conditions at the time of the discharge, specifying the amount of rainfall on a daily basis that had fallen:
 - i) on the day(s) of the discharge; and
 - ii) for the one week period prior to the discharge.
- d) the most recent monitoring results of the chemical composition of the leachate;
- e) an explanation as to why the discharge occurred;
- f) the location(s) of the discharge;
- g) a plan of action to prevent a similar discharge in the future; and
- h) was the discharge permitted by this licence.

R5 Other reporting conditions

- R5.1 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.
- R5.2 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.
- R5.3 Whenever the results of any three consecutive monitoring rounds required by Condition M2 of this licence for any of the following points exceeds, or is outside the range of the following trigger values for any parameter, the licensee must submit a report to the EPA within 14 days proposing a Groundwater Assessment Program identifying a strategy for assessing the nature and extent of the groundwater contamination.

POINT	Parameter	Unit of measure	Trigger level or range
8	pH	pH	5.35-9.26
	Ammonia	mg/L	0.62
	Total Nitrogen	mg/L	4.2
	Dissolved organic carbon	mg/L	69.6
	Potassium	mg/L	36.9

Environment Protection Licence

Licence - 5872



	Total Petroleum Hydrocarbons C15-C36 Fractions	µg/L	125.8
9	pH	pH	5.11-9.5
	Ammonia	mg/L	0.26
	Total Nitrogen	mg/L	3.3
	Dissolved organic carbon	mg/L	63.4
	Potassium	mg/L	9.1
	Total Petroleum Hydrocarbons C15-C36 Fractions	µg/L	139.8
10	pH	pH	5.54-9.1
	Ammonia	mg/L	1.4
	Total Nitrogen	mg/L	2.3
	Dissolved organic carbon	mg/L	45.8
	Potassium	mg/L	6.9
	Total Petroleum Hydrocarbons C15-C36 Fractions	µg/L	106.9
11	pH	pH	4.97-10.3
	Ammonia	mg/L	0.33
	Total Nitrogen	mg/L	1.0
	Dissolved organic carbon	mg/L	92.9
	Potassium	mg/L	8.6
	Total Petroleum Hydrocarbons C15-C36 Fractions	µg/L	50
12	pH	pH	4.9-8.4
	Ammonia	mg/L	0.15
	Total Nitrogen	mg/L	3.0
	Dissolved organic carbon	mg/L	40.3
	Potassium	mg/L	4.95
	Total Petroleum Hydrocarbons C15-C36 Fractions	µg/L	50

- R5.4 The licensee must notify the EPA within 48 hours in accordance with condition R2.1 if gas monitoring at Points 6 or 7 detects methane above 1.25% (v/v), and increase the frequency of monitoring to daily, until the EPA determines otherwise.

7 General Conditions

G1 Copy of licence kept at the premises or plant

Environment Protection Licence

Licence - 5872



G1.1 A copy of this licence must be kept at the premises to which the licence applies.

G1.2 The licence must be produced to any authorised officer of the EPA who asks to see it.

G1.3 The licence must be available for inspection by any employee or agent of the licensee working at the premises.

8 Pollution Studies and Reduction Programs

U1 Surface Water Monitoring Program

U1.1 For each location specified below the licensee must monitor (by sampling and obtaining results by analysis) each parameter specified in column one (1). The licensee must use the sampling method and frequency specified in the other columns.

1. Surface water sample sites shown as "SW01" and "SW02" in Figure 8 of the LEMP

Parameter	Unit of measure	Frequency	Method
Total suspended solids	mg/L	During flow arising from each rainfall event exceeding 50mm	Grab sample
Temperature	degrees Celsius	During flow arising from each rainfall event exceeding 50mm	Probe
pH	pH	During flow arising from each rainfall event exceeding 50mm	Probe
Redox potential	mV	During flow arising from each rainfall event exceeding 50mm	Probe
Conductivity	µS/cm	During flow arising from each rainfall event exceeding 50mm	Probe
Dissolved oxygen	mg/L	During flow arising from each rainfall event exceeding 50mm	Grab sample
Sodium	mg/L	During flow arising from each rainfall event exceeding 50mm	Grab sample
Chloride	mg/L	During flow arising from each rainfall event exceeding 50mm	Grab sample
Calcium	mg/L	During flow arising from each rainfall event exceeding 50mm	Grab sample
Magnesium	mg/L	During flow arising from each rainfall event exceeding 50mm	Grab sample

Environment Protection Licence

Licence - 5872



Sulphate	mg/L	During flow arising from each rainfall event exceeding 50mm	Grab sample
Potassium	mg/L	During flow arising from each rainfall event exceeding 50mm	Grab sample
Nitrate	mg/L	During flow arising from each rainfall event exceeding 50mm	Grab sample
Manganese	mg/L	During flow arising from each rainfall event exceeding 50mm	Grab sample
Ammonia	mg/L	During flow arising from each rainfall event exceeding 50mm	Grab sample
Dissolved organic carbon	mg/L	During flow arising from each rainfall event exceeding 50mm	Grab sample
Arsenic	mg/L	During flow arising from each rainfall event exceeding 50mm	Grab sample
Copper	mg/L	During flow arising from each rainfall event exceeding 50mm	Grab sample
Chromium	mg/L	During flow arising from each rainfall event exceeding 50mm	Grab sample

U1.2 Within two months of the completion of eight rounds of surface water monitoring carried out in accordance with condition U1.1 the licensee must submit the following to the EPA:

- (a) a graphical and tabulated summary of the surface water monitoring results;
- (b) the range of parameter concentrations indicative of surface water unaffected by leachate at the premises;
- (c) a justified list of parameters and sampling frequencies to be used as the basis for an ongoing surface water contamination detection monitoring program;
- (d) a justified list of concentrations for the parameters of the proposed surface water contamination detection monitoring program that would trigger the need for remedial action; and
- (e) a description of the methodology used for establishing the trigger concentrations in (d) above.

U2 Landfill gas assessment

- U2.1 The licensee must prepare and submit to the EPA within 30 July 2012 a report detailing the following:
- (a) outcomes of a study undertaken by the licensee on the quantities of landfill gas being generated by the landfill;
 - (b) an assessment of whether landfill gas is migrating from the premises and of the risk of explosion;
 - (c) the need for instituting additional surface and subsurface gas monitoring; and
 - (d) the need for and viability of gas extraction and flaring or conversion of gas to energy.

U3 Future Cell Designs

Environment Protection Licence

Licence - 5872



- U3.1 Before completion of filling Cell 5 with waste the licensee must submit to the EPA for review the proposed design and operation of the leachate barrier, leachate collection and leachate storage systems for all future landfill cells identified in the LEMP as Cells 6, 7 and 8.
- U3.2 Before the construction of cell 5 commences at the premises the licensee must:
1. Undertake a detailed investigation of the nature (extent, depth, flow direction and flow rate) of groundwater in that area, including identifying fluctuations as a result of changing seasons and climatic conditions over time;
 2. In light of the outcome of 1. above, review the proposed design and operation of the cell lining and leachate collection system to determine any changes that may be necessary to ensure the environmental sustainability of cell 5; and
 3. Submit a report on 1 and 2 above to the EPA for our review.

9 Special Conditions

E1 Special Dictionary

- E1.1 Leachate - means liquid released by, or water that has percolated through, waste and which contains dissolved and/or suspended liquids and/or solids and/or gases.

E2 Alternative Daily Cover

- E2.1 The EPA will permit the use of up to 1000 tonnes of soil, as described in the request from Richmond Valley Council dated 17 October 2012, as alternative daily cover (ADC) subject to the following requirements:
1.
The ADC material stockpiles must be clearly delineated and identified on site in a manner that provides a clear separation from other cover material stockpiles.
 2.
All leachate and runoff from the ADC stockpile must be directed into the leachate collection system of the landfill.
 3.
The licensee is to advise the EPA when the stockpiled ADC material has been exhausted.

Environment Protection Licence

Licence - 5872



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

Environment Protection Licence

Licence - 5872



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> .

Environment Protection Licence

Licence - 5872



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 Graeme Budd

Environment Protection Authority

(By Delegation)

Date of this edition: 01-December-2000

Environment Protection Licence

Licence - 5872



End Notes

- 1 Licence varied by change from LGA 1650 to 6610, issued on 24-May-2001, which came into effect on 24-May-2001.
- 2 Licence varied by notice 1020396, issued on 11-Sep-2002, which came into effect on 06-Oct-2002.
- 3 Licence varied by notice 1022328, issued on 07-Feb-2003, which came into effect on 04-Mar-2003.
- 4 Licence varied by notice 1032186, issued on 12-Dec-2003, which came into effect on 06-Jan-2004.
- 5 Licence varied by notice 1047774, issued on 14-Jun-2005, which came into effect on 09-Jul-2005.
- 6 Condition A1.3 Not applicable varied by notice issued on <issue date> which came into effect on <effective date>
- 7 Licence varied by notice 1097457, issued on 24-Feb-2009, which came into effect on 24-Feb-2009.
- 8 Licence varied by correction to DECCW Region data record, issued on 01-Nov-2010, which came into effect on 01-Nov-2010.
- 9 Licence varied by notice 1502815 issued on 05-Jan-2012
- 10 Licence varied by notice 1509646 issued on 15-Nov-2012