

Environment Protection Licence

Licence - 11435



Licence Details

Number:	11435
Anniversary Date:	24-September

Licensee

TENTERFIELD SHIRE COUNCIL

PO BOX 214

TENTERFIELD NSW 2372

Premises

BOONOO BOONOO LANDFILL

MT LINDESAY ROAD

TENTERFIELD NSW 2372

Scheduled Activity

Waste Disposal (application to land)

Fee Based Activity

Waste disposal by application to land

Scale

Any annual capacity

Region

North West - Armidale

Level 1, NSW Govt Offices, 85 Faulkner Street

ARMIDALE NSW 2350

Phone: (02) 6773 7000

Fax: (02) 6772 2336

PO Box 494 ARMIDALE

NSW 2350

Environment Protection Licence

Licence - 11435



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	6
P1 Location of monitoring/discharge points and areas	6
3 LIMIT CONDITIONS	7
L1 Pollution of waters	7
L2 Concentration limits	7
L3 Waste	8
L4 Noise limits	9
4 OPERATING CONDITIONS	9
O1 Activities must be carried out in a competent manner	9
O2 Maintenance of plant and equipment	10
O3 Dust	10
O4 Emergency response	10
O5 Processes and management	10
O6 Waste management	11
5 MONITORING AND RECORDING CONDITIONS	12
M1 Monitoring records	12
M2 Requirement to monitor concentration of pollutants discharged	12
M3 Testing methods - concentration limits	17
M4 Recording of pollution complaints	17
M5 Telephone complaints line	18
M6 Requirement to monitor volume or mass	18
M7 Other monitoring and recording conditions	18
6 REPORTING CONDITIONS	18

Environment Protection Licence



Licence - 11435

R1	Annual return documents	18
R2	Notification of environmental harm	19
R3	Written report	20
R4	Other reporting conditions	21
7	GENERAL CONDITIONS	21
G1	Copy of licence kept at the premises or plant	21
8	SPECIAL CONDITIONS	21
E1	Interim Waste Cell No. 3	21
DICTIONARY		23
	General Dictionary	23

Environment Protection Licence

Licence - 11435



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 - 11435



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:

TENTERFIELD SHIRE COUNCIL
PO BOX 214
TENTERFIELD NSW 2372

subject to the conditions which follow.

Environment Protection Licence

Licence - 11435



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
BOONOO BOONOO LANDFILL
MT LINDESAY ROAD
TENTERFIELD
NSW 2372
LOT 1 DP 842666
PARISH BOONOO BOONOO, COUNTY OF CLIVE

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.

2 Discharges to Air and Water and Applications to Land

P1 Location of monitoring/discharge points and areas

Environment Protection Licence

Licence - 11435



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

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

Water and land

EPA Identification no.	Type of Monitoring Point	Type of Discharge Point	Location Description
1	Groundwater quality monitoring		Upslope and approximately 30m northwest of the first landfill cell to undergo filling
2	Groundwater quality monitoring		Upslope and approximately 70m northwest of the leachate pond
3	Groundwater quality monitoring		Downslope and approximately 20m southeast of the leachate pond
4	Leachate quality monitoring, Volume monitoring Discharge to irrigation area		Leachate pond
5	Wet weather discharge Leachate quality monitoring	Wet weather discharge Leachate quality monitoring	Leachate pond overflow
6	Leachate quality monitoring	Leachate quality monitoring	Active waste disposal cell and areas within the catchment of the leachate collection system
7	Ambient water quality monitoring.		Dismal Swamp Creek upstream of point where leachate overflow from leachate pond enters the creek
8	Ambient water quality monitoring		Dismal Swamp Creek downstream of point where leachate overflow from leachate pond enters the creek
9	Wet weather discharge Drainage quality monitoring.	Wet weather discharge Drainage quality monitoring.	Within main surface water drainage line from landfill, downslope and approximately 10m southeast of groundwater monitoring Point 3

3 Limit Conditions

L1 Pollution of waters

L1.1 Except as may be expressly provided in any other condition of this licence, the licensee must comply with section 120 of the Protection of the Environment Operations Act 1997.

L2 Concentration limits

Environment Protection Licence



Licence - 11435

- L2.1 For each monitoring/discharge point or utilisation area specified in the table\&s 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\&s.
- L2.4 Water and/or Land Concentration Limits

POINT 9

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 Exceedances of the concentration limits for TSS in condition L2.3 are permitted at the following points for the duration of the overflow:
Point 9, whenever a wet weather overflow is occurring due to stormwater events greater than or equal to a 1 in 20 year 24 hour duration storm event.
- L2.6 Whenever a wet weather overflow is occurring due to a stormwater event greater than or equal to a 1 in 25 year 24 hour duration storm event, leachate is permitted to be discharged at the following point for the duration of the overflow: Point 5.

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 (non-putrescible)	As defined in schedule 1 of the POEO Act, in force from time to time	Waste disposal (application to land)	The total quantity of waste disposed of at the premises must not exceed 2000 tonnes per year

Environment Protection Licence

Licence - 11435



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 quantity of waste disposed of at the premises must not exceed 2000 tonnes per year
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 quantity of waste disposed of at the premises must not exceed 2000 tonnes per year
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 quantity of waste disposed of at the premises must not exceed 2000 tonnes per year
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

Note: If the licence permits the disposal of asbestos waste, the licensee must comply with Clause 42 of the Protection of the Environment Operations (Waste) Regulation 2005.

L4 Noise limits

L4.1 Noise from the premises must not exceed:

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

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

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:

Environment Protection Licence



Licence - 11435

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

O2 Maintenance of plant and equipment

- O2.1 All plant and equipment installed at the premises or used in connection with the licensed activity:
- a) must be maintained in a proper and efficient condition; and
 - b) must be operated in a proper and efficient manner.

O3 Dust

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

O4 Emergency response

- O4.1 The licensee must have in place and implement all procedures specified in Section 8.8 "Fire" of the Boonoo Boonoo Landfill, Landfill Environmental Management Plan, 9th August 2000, by Tenterfield Shire Council to minimise the risk of fire at the premises.
- O4.2 The licensee must extinguish fires at the premises as soon as possible.
- O4.3 The licensee must implement fire prevention measures at the premises in accordance with Section 8.8 "Fire" of the Boonoo Boonoo Landfill, Landfill Environmental Management Plan, 9th August 2000, by Tenterfield Shire Council. .

O5 Processes and management

- O5.1 The storage capacity of the leachate dam must be maintained in that all practicle measures must be implemented after a wet weather overflow due to an event greater or equal to a 1 in 25 year 24 hour duration storm event to return freeboard in the dam after 5 days to allow the capture and storgae of a rain event less than or up to a 1 in 25 year 24 hour duration storm event.
- O5.2 The perimeter of the areas where waste has been landfilled must be contoured to prevent stormwater running onot these surafces from all storm events less than or equal to a 1 in 20 year 24 hour storm duration storm event.
- O5.3 The licensee must maintain lockable security gates at all access and departure locations.
- O5.4 The licensee must ensure that all gates are locked whenever the landfill is unattended.
- O5.5 The licensee must implement the litter management program specified in Section 8.3 "Litter" in the Boonoo Boonoo Landfill, Landfill Environmental Management Plan, 9th August 2000, by

Environment Protection Licence

Licence - 11435



Tenterfield Shire Council..

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 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 submit to the EPA within 3 months prior to the last load of waste being landfilled a closure plan in accordance with Section 76 of the Protection of the Environment Operations Act 1997.
- O6.6 A leachate barrier system described in Appendix A - Benchmark Techniques of the EPA's Environmental Guidelines: Solid Waste Landfills (as amended from time to time) and a leachate collection system as described in the EPA's Environmental Guidelines: Solid Waste Landfills must be installed on each surface within the premises to be used for the emplacement of waste and/or leachate, except as expressly permitted by this licence.
- O6.7 The proposed design of the leachate barrier system and leachate collection system referred to in condition O6.6, along with a quality assurance program which demonstrates that they will be constructed to achieve their design objectives, must be submitted to the EPA for review at least 3 months prior to the proposed installation.
- O6.8 Surface drainage must be diverted away from any area where waste is being or has been landfilled.
- O6.9 The leachate barrier system and leachate collection system must be installed above the groundwater table.
- O6.10 Leachate impounded in the surface leachate storage ponds and leachate collected by the subsurface leachate collection system may be irrigated on the following utilisation area(s):
Point 6.
- O6.11 Leachate applied to the utilisation area must not generate runoff.
- O6.12 The perimeter of the utilisation area Point 6 must be contoured to prevent stormwater running onto the utilisation area from all storm events less than or equal to a 1 in 20 year 24 hour duration storm event.
- O6.13 There must be no incineration or burning of any waste at the premises.

Environment Protection Licence

Licence - 11435



O6.14 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.

O6.15 The licensee must ensure that the achieved compaction rate of landfilled waste (excluding cover material) is stated in the annual report for the waste premises submitted to the EPA.

O6.16 Covering of waste:

The licensee must cover waste in accordance with Appendix A, Benchmark Technique Number 33 of the Environmental Guidelines: Solid Waste Landfills 1996.

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:

- in a legible form, or in a form that can readily be reduced to a legible form;
- kept for at least 4 years after the monitoring or event to which they relate took place; and
- 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:

- the date(s) on which the sample was taken;
- the time(s) at which the sample was collected;
- the point at which the sample was taken; and
- 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 Water and/ or Land Monitoring Requirements

POINT 1,2,3

Pollutant	Units of measure	Frequency	Sampling Method
Alkalinity (as calcium carbonate)	milligrams per litre	Quarterly	Grab sample
Aluminium (dissolved)	milligrams per litre	Quarterly	Grab sample
Arsenic (dissolved)	milligrams per litre	Quarterly	Grab sample

Environment Protection Licence

Licence - 11435



Cadmium (dissolved)	milligrams per litre	Quarterly	Grab sample
Calcium	milligrams per litre	Quarterly	Grab sample
Chloride	milligrams per litre	Quarterly	Grab sample
Chromium (hexavalent)	milligrams per litre	Quarterly	Grab sample
Cobalt (dissolved)	milligrams per litre	Quarterly	Grab sample
Conductivity	microsiemens per centimetre	Quarterly	In situ
Copper (dissolved)	milligrams per litre	Quarterly	Grab sample
Dissolved Oxygen	milligrams per litre	Quarterly	In situ
Iron	milligrams per litre	Quarterly	Grab sample
Lead (dissolved)	milligrams per litre	Quarterly	Grab sample
Magnesium	milligrams per litre	Quarterly	Grab sample
Manganese	milligrams per litre	Quarterly	Grab sample
Mercury (dissolved)	milligrams per litre	Quarterly	Grab sample
Nickel (dissolved)	milligrams per litre	Quarterly	Grab sample
Nitrate	milligrams per litre	Quarterly	Grab sample
Nitrite	milligrams per litre	Quarterly	Grab sample
Nitrogen (ammonia)	milligrams per litre	Quarterly	Grab sample
pH	pH	Quarterly	In situ
Polycyclic aromatic hydrocarbons	milligrams per litre	Quarterly	Grab sample
Potassium	milligrams per litre	Quarterly	Grab sample
Redox potential	millivolts	Quarterly	In situ
Sodium	milligrams per litre	Quarterly	Grab sample
Standing Water Level	metres	Quarterly	Inspection
Sulfate	milligrams per litre	Quarterly	Grab sample
Temperature	degrees Celsius	Quarterly	In situ
Total Kjeldahl Nitrogen	milligrams per litre	Quarterly	Grab sample
Total organic carbon	milligrams per litre	Quarterly	Grab sample
Total petroleum hydrocarbons	milligrams per litre	Quarterly	Grab sample
Zinc	milligrams per litre	Quarterly	Grab sample

POINT 4

Pollutant	Units of measure	Frequency	Sampling Method
Alkalinity (as calcium carbonate)	milligrams per litre	Quarterly	Grab sample
Aluminium (dissolved)	milligrams per litre	Quarterly	Grab sample
Arsenic (dissolved)	milligrams per litre	Quarterly	Grab sample
Cadmium (dissolved)	milligrams per litre	Quarterly	Grab sample
Calcium	milligrams per litre	Quarterly	Grab sample
Chloride	milligrams per litre	Quarterly	Grab sample

Environment Protection Licence

Licence - 11435



Chromium (hexavalent)	milligrams per litre	Quarterly	Grab sample
Cobalt (dissolved)	milligrams per litre	Quarterly	Grab sample
Conductivity	microsiemens per centimetre	Quarterly	In situ
Copper (dissolved)	milligrams per litre	Quarterly	Grab sample
Dissolved Oxygen	milligrams per litre	Quarterly	In situ
Iron	milligrams per litre	Quarterly	Grab sample
Lead (dissolved)	milligrams per litre	Quarterly	Grab sample
Magnesium	milligrams per litre	Quarterly	Grab sample
Manganese	milligrams per litre	Quarterly	Grab sample
Mercury (dissolved)	milligrams per litre	Quarterly	Grab sample
Nickel (dissolved)	milligrams per litre	Quarterly	Grab sample
Nitrate	milligrams per litre	Quarterly	Grab sample
Nitrite	milligrams per litre	Quarterly	Grab sample
Nitrogen (ammonia)	milligrams per litre	Quarterly	Grab sample
Organochlorine pesticides	micrograms per litre	Quarterly	Grab sample
Organophosphate pesticides	micrograms per litre	Quarterly	Grab sample
pH	pH	Quarterly	In situ
Polycyclic aromatic hydrocarbons	milligrams per litre	Quarterly	Grab sample
Potassium	milligrams per litre	Quarterly	Grab sample
Redox potential	millivolts	Quarterly	In situ
Sodium	milligrams per litre	Quarterly	Grab sample
Sulfate	milligrams per litre	Quarterly	Grab sample
Temperature	degrees Celsius	Quarterly	In situ
Total Kjeldahl Nitrogen	milligrams per litre	Quarterly	Grab sample
Total organic carbon	milligrams per litre	Quarterly	Grab sample
Total petroleum hydrocarbons	milligrams per litre	Quarterly	Grab sample
Zinc	milligrams per litre	Quarterly	Grab sample

POINT 5

Pollutant	Units of measure	Frequency	Sampling Method
Alkalinity (as calcium carbonate)	milligrams per litre	Special Frequency 1	Grab sample
Aluminium (dissolved)	milligrams per litre	Special Frequency 1	Grab sample
Arsenic (dissolved)	milligrams per litre	Special Frequency 1	Grab sample
Cadmium (dissolved)	milligrams per litre	Special Frequency 1	Grab sample
Calcium	milligrams per litre	Special Frequency 1	Grab sample
Chloride	milligrams per litre	Special Frequency 1	Grab sample
Chromium (hexavalent)	milligrams per litre	Special Frequency 1	Grab sample
Cobalt (dissolved)	milligrams per litre	Special Frequency 1	Grab sample

Environment Protection Licence

Licence - 11435



Conductivity	microsiemens per centimetre	Special Frequency 1	In situ
Copper (dissolved)	milligrams per litre	Special Frequency 1	Grab sample
Dissolved Oxygen	milligrams per litre	Special Frequency 1	In situ
Iron	milligrams per litre	Special Frequency 1	Grab sample
Lead (dissolved)	milligrams per litre	Special Frequency 1	Grab sample
Magnesium	milligrams per litre	Special Frequency 1	Grab sample
Manganese	milligrams per litre	Special Frequency 1	Grab sample
Mercury (dissolved)	milligrams per litre	Special Frequency 1	Grab sample
Nickel (dissolved)	milligrams per litre	Special Frequency 1	Grab sample
Nitrate	milligrams per litre	Special Frequency 1	Grab sample
Nitrite	milligrams per litre	Special Frequency 1	Grab sample
Nitrogen (ammonia)	milligrams per litre	Special Frequency 1	Grab sample
pH	pH	Special Frequency 1	In situ
Polycyclic aromatic hydrocarbons	milligrams per litre	Special Frequency 1	Grab sample
Potassium	milligrams per litre	Special Frequency 1	Grab sample
Redox potential	millivolts	Special Frequency 1	In situ
Sodium	milligrams per litre	Special Frequency 1	Grab sample
Sulfate	milligrams per litre	Special Frequency 1	Grab sample
Temperature	degrees Celsius	Special Frequency 1	In situ
Total Kjeldahl Nitrogen	milligrams per litre	Special Frequency 1	Grab sample
Total organic carbon	milligrams per litre	Special Frequency 1	Grab sample
Total petroleum hydrocarbons	milligrams per litre	Special Frequency 1	Grab sample
Volumetric flowrate	kilolitres per day	Special Frequency 1	Estimate
Zinc	milligrams per litre	Special Frequency 1	Grab sample

POINT 7,8

Pollutant	Units of measure	Frequency	Sampling Method
Alkalinity (as calcium carbonate)	milligrams per litre	Special Frequency 1	Grab sample
Aluminium (dissolved)	milligrams per litre	Special Frequency 1	Grab sample
Arsenic (dissolved)	milligrams per litre	Special Frequency 1	Grab sample
Cadmium (dissolved)	milligrams per litre	Special Frequency 1	Grab sample
Calcium	milligrams per litre	Special Frequency 1	Grab sample
Chloride	milligrams per litre	Special Frequency 1	Grab sample
Chromium (hexavalent)	milligrams per litre	Special Frequency 1	Grab sample
Cobalt (dissolved)	milligrams per litre	Special Frequency 1	Grab sample
Conductivity	microsiemens per centimetre	Special Frequency 1	In situ
Copper (dissolved)	milligrams per litre	Special Frequency 1	Grab sample
Dissolved Oxygen	milligrams per litre	Special Frequency 1	In situ
Iron	milligrams per litre	Special Frequency 1	Grab sample
Lead (dissolved)	milligrams per litre	Special Frequency 1	Grab sample

Environment Protection Licence



Licence - 11435

Magnesium	milligrams per litre	Special Frequency 1	Grab sample
Manganese	milligrams per litre	Special Frequency 1	Grab sample
Mercury (dissolved)	milligrams per litre	Special Frequency 1	Grab sample
Nickel (dissolved)	milligrams per litre	Special Frequency 1	Grab sample
Nitrate	milligrams per litre	Special Frequency 1	Grab sample
Nitrite	milligrams per litre	Special Frequency 1	Grab sample
Nitrogen (ammonia)	milligrams per litre	Special Frequency 1	Grab sample
pH	pH	Special Frequency 1	In situ
Polycyclic aromatic hydrocarbons	milligrams per litre	Special Frequency 1	Grab sample
Potassium	milligrams per litre	Special Frequency 1	Grab sample
Redox potential	millivolts	Special Frequency 1	In situ
Sodium	milligrams per litre	Special Frequency 1	Grab sample
Sulfate	milligrams per litre	Special Frequency 1	Grab sample
Temperature	degrees Celsius	Special Frequency 1	In situ
Total Kjeldahl Nitrogen	milligrams per litre	Special Frequency 1	Grab sample
Total organic carbon	milligrams per litre	Special Frequency 1	Grab sample
Total petroleum hydrocarbons	milligrams per litre	Special Frequency 1	Grab sample
Volumetric flowrate	kilolitres per day	Special Frequency 1	Estimate
Zinc	milligrams per litre	Special Frequency 1	Grab sample

POINT 9

Pollutant	Units of measure	Frequency	Sampling Method
Alkalinity (as calcium carbonate)	milligrams per litre	Special Frequency 2	Grab sample
Aluminium (dissolved)	milligrams per litre	Special Frequency 2	Grab sample
Arsenic (dissolved)	milligrams per litre	Special Frequency 2	Grab sample
Cadmium (dissolved)	milligrams per litre	Special Frequency 2	Grab sample
Calcium	milligrams per litre	Special Frequency 2	Grab sample
Chloride	milligrams per litre	Special Frequency 2	Grab sample
Chromium (hexavalent)	milligrams per litre	Special Frequency 2	Grab sample
Cobalt (dissolved)	milligrams per litre	Special Frequency 2	Grab sample
Conductivity	microsiemens per centimetre	Special Frequency 2	In situ
Copper (dissolved)	milligrams per litre	Special Frequency 2	Grab sample
Dissolved Oxygen	milligrams per litre	Special Frequency 2	In situ
Iron	milligrams per litre	Special Frequency 2	Grab sample
Lead (dissolved)	milligrams per litre	Special Frequency 2	Grab sample
Magnesium	milligrams per litre	Special Frequency 2	Grab sample
Manganese	milligrams per litre	Special Frequency 2	Grab sample
Mercury (dissolved)	milligrams per litre	Special Frequency 2	Grab sample
Nickel (dissolved)	milligrams per litre	Special Frequency 2	Grab sample
Nitrate	milligrams per litre	Special Frequency 2	Grab sample

Environment Protection Licence



Licence - 11435

Nitrite	milligrams per litre	Special Frequency 2	Grab sample
Nitrogen (ammonia)	milligrams per litre	Special Frequency 2	Grab sample
pH	pH	Special Frequency 2	In situ
Polycyclic aromatic hydrocarbons	milligrams per litre	Special Frequency 2	Grab sample
Potassium	milligrams per litre	Special Frequency 2	Grab sample
Redox potential	millivolts	Special Frequency 2	In situ
Sodium	milligrams per litre	Special Frequency 2	Grab sample
Sulfate	milligrams per litre	Special Frequency 2	Grab sample
Temperature	degrees Celsius	Special Frequency 2	In situ
Total Kjeldahl Nitrogen	milligrams per litre	Special Frequency 2	Grab sample
Total organic carbon	milligrams per litre	Special Frequency 2	Grab sample
Total petroleum hydrocarbons	milligrams per litre	Special Frequency 2	Grab sample
Total suspended solids	milligrams per litre	Special Frequency 2	Grab sample
Volumetric flowrate	kilolitres per day	Special Frequency 2	Estimate
Zinc	milligrams per litre	Special Frequency 2	Grab sample

M2.3 For the purposes of the above table(s) 'Special Frequency 1' means the collection of samples once in the first 24 hours after detection of the discharge, then weekly whilst the discharge continues.

M2.4 For the purposes of the table(s) above 'Special Frequency 2' means the collection of samples once in each 6 monthly period at a time of stormwater discharge.

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

Environment Protection Licence

Licence - 11435



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

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

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

M5 Telephone complaints line

M5.1 The licensee must operate during its operating hours a telephone complaints line for the purpose of receiving any complaints from members of the public in relation to activities conducted at the premises or by the vehicle or mobile plant, unless otherwise specified in the licence.

M5.2 The licensee must notify the public of the complaints line telephone number and the fact that it is a complaints line so that the impacted community knows how to make a complaint.

M5.3 The preceding two conditions do not apply until 3 months after:
a) the date of the issue of this licence or
b) if this licence is a replacement licence within the meaning of the Protection of the Environment Operations (Savings and Transitional) Regulation 1998, the date on which a copy of the licence was served on the licensee under clause 10 of that regulation.

M6 Requirement to monitor volume or mass

M6.1 For each discharge point or utilisation area specified below, the licensee must monitor:
a) the volume of liquids discharged to water or applied to the area;
b) the mass of solids applied to the area;
c) the mass of pollutants emitted to the air;
at the frequency and using the method and units of measure, specified below.

POINT 4

Frequency	Unit of Measure	Sampling Method
Weekly during any discharge	litres	By Calculation (volume flow rate or pump capacity multiplied by operating time)

M7 Other monitoring and recording conditions

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

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

Environment Protection Licence



Licence - 11435

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.

R2 Notification of environmental harm

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

Environment Protection Licence



Licence - 11435

- 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 Whenever leachate is discharged to surface waters from the premises the licensee must notify the event to the EPA in accordance with condition R5.2.
- R2.4 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 R5.3.
- R2.5 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.

Note: The licensee or its employees must notify the EPA of incidents causing or threatening material harm to the environment as soon as practicable 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;

Environment Protection Licence

Licence - 11435



- f) details of any measure taken or proposed to be taken to prevent or mitigate against a recurrence of such an event; and
- g) any other relevant matters.

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

R4 Other reporting conditions

- R4.1 The licensee must record the following data in relation to fires occurring at the premises:
- a) Time and date when the fire started.
 - 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 burnt out or was extinguished.
 - d) The location of fire (eg. clean timber stockpile, putrescible garbage cell, etc).
 - e) Prevailing weather conditions at the time of the fire.
 - 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;
 - i) Action taken to prevent a reoccurrence.

The data must be recorded on each day that the fire is burning.

R4.2 The licensee or its employees or agents must notify the occurrence of all fires on the premises in accordance with conditions R2.1 and R2.2 as soon as practical after becoming aware of the fire.

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 Interim Waste Cell No. 3

- E1.1 Interim Cell 3
- 1) Interim Cell 3 must be constructed in accordance with drawings 1 to 3 inclusive, "Tenterfield Shire Council, Boonoo Boonoo Landfill, Interim Cell 3 with Bentomat CLT layout Plan", Issue HE, Plan No. WEDS 11-201 dated 21 November 2011.

Environment Protection Licence

Licence - 11435



2) Within 21 days after the installation of the lining and leachate collection systems in Interim Cell No. 3 the licensee must forward to the EPA a construction quality assurance (CQA) report providing:

- a) as constructed drawings prepared from field surveys of the installed liner and leachate collection systems; and
- b) photographic evidence of the measures in a).

Environment Protection Licence



Licence - 11435

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 - 11435

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 - 11435

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 David Dutailis

Environment Protection Authority

(By Delegation)

Date of this edition: 30-May-2001

End Notes

- 1 Licence varied by notice 1038031, issued on 26-Oct-2004, which came into effect on 20-Nov-2004.
- 2 Licence fee period changed by notice 1063050 on 14-Jul-2006.
- 3 Licence varied by notice 1071436, issued on 23-Mar-2007, which came into effect on 23-Mar-2007.
- 4 Licence varied by notice 1082921, issued on 20-Feb-2008, which came into effect on 20-Feb-2008.
- 5 Condition A1.3 Not applicable varied by notice issued on <issue date> which came into effect on <effective date>
- 6 Licence varied by notice 1098908, issued on 25-Mar-2009, which came into effect on 25-Mar-2009.
- 7 Licence varied by notice 1110110, issued on 20-Aug-2010, which came into effect on 20-Aug-2010.
- 8 Licence varied by notice 1503231 issued on 22-Dec-2011