

Licence Variation

Licence - 546



THE AUSTRAL BRICK CO PTY LTD
Trading as The Austral Brick Co Pty Ltd
ABN 52 000 005 550
PO BOX 6550
WETHERILL PARK NSW 1851

Attention: Mr S Wall

Notice Number 1516757
File Number LIC08/648
Date 09-Sep-2013

NOTICE OF VARIATION OF LICENCE NO. 546

BACKGROUND

- A. THE AUSTRAL BRICK CO PTY LTD Trading as The Austral Brick Co Pty Ltd ("the licensee") is the holder of Environment Protection Licence No. 546 ("the licence") issued under the *Protection of the Environment Operations Act 1997* ("the Act"). The licence authorises the carrying out of activities at 738-780 WALLGROVE ROAD, HORSLEY PARK, NSW, 2175 ("the premises").
- B. On 12 November 2012 the licensee was granted Development Consent (No. 286.1/2012) from Fairfield City Council for the installation of a gas pipeline, and to use captured landfill gas to manufacture bricks at the premises. The Environment Protection Authority (EPA) provided its General Terms of Approval (GTA's) (notice No. 1509361) for the proposed development on 16 October 2012. The EPA's GTA's were included in Council's Consent.
- C. On 28 August 2013 the EPA received a Licence Variation Application from the licensee to add the EPA's GTA conditions to the licence for the use of landfill gas to manufacture bricks at the premises.
- D. The EPA has subsequently varied the licence to allow the use of landfill gas to manufacture bricks at the premises.
- E. The EPA will consider reducing the frequency of emission monitoring for licence discharge Point 4 if the first four quarterly monitoring results are below the emissions limits specified on the licence for Discharge Point 4, and the licensee submits a licence variation application (with supporting information) to the EPA.
- F. The EPA has approved the following variation to the licence having due regard for the considerations required under Section 45 of the POEO Act.

VARIATION OF LICENCE NO. 546

Licence Variation



1. By this notice the EPA varies licence No. 546. The attached licence document contains all variations that are made to the licence by this notice.
2. The following variations have been made to the licence:
 - 18 pollutants have been added to table for Licence Discharge Point 4 specified in condition M2.2; and
 - Special Frequency 1 outlined in condition M2.4 has been revised to relate to Licence Discharge Point 4.

A handwritten signature in black ink, appearing to read 'David Gathercole', written over a horizontal dotted line.

David Gathercole
Acting Unit Head
Metropolitan - Sydney Industry
(by Delegation)

INFORMATION ABOUT THIS NOTICE

- This notice is issued under section 58(5) of the Act.
- Details provided in this notice, along with an updated version of the licence, will be available on the EPA's Public Register (<http://www.environment.nsw.gov.au/prpoeo/index.htm>) in accordance with section 308 of the Act.

Appeals against this decision

- You can appeal to the Land and Environment Court against this decision. The deadline for lodging the appeal is 21 days after you were given notice of this decision.

When this notice begins to operate

- The variations to the licence specified in this notice begin to operate immediately from the date of this notice, unless another date is specified in this notice.
- If an appeal is made against this decision to vary the licence and the Land and Environment Court directs that the decision is stayed the decision does not operate until the stay ceases to have effect or the Land and Environment Court confirms the decision or the appeal is withdrawn (whichever occurs first).

Licence Variation Summary

Licence - 546



This Summary serves merely to highlight changes made to areas of this licence. Changes made to tables within the licence are indicated using underline (for additions) and Strikethrough (for deletions). While changes to conditions are indicated under subheadings such as 'New condition', 'Old condition', 'Replaced by', and 'Removed condition'.

The attached licence document contains all the changes made to this licence by the attached variation notice.

5 Monitoring and Recording Conditions

Requirement to monitor concentration of pollutants discharged

POINT 4			
Pollutant Name	Unit of Measure	Frequency	Sampling Method
<u>Cadmium</u>	<u>milligrams per cubic metre</u>	<u>Special Frequency 1</u>	<u>TM-12, TM-13 & TM-14</u>
<u>Dry gas density</u>	<u>kilograms per cubic metre</u>	<u>Special Frequency 1</u>	<u>TM-23</u>
<u>Fluorine</u>	<u>milligrams per cubic metre</u>	<u>Special Frequency 1</u>	<u>TM-9</u>
<u>Hydrogen chloride</u>	<u>milligrams per cubic metre</u>	<u>Special Frequency 1</u>	<u>TM-8</u>
<u>Hydrogen Sulfide</u>	<u>milligrams per cubic metre</u>	<u>Special Frequency 1</u>	<u>TM-6</u>
<u>Mercury</u>	<u>milligrams per cubic metre</u>	<u>Special Frequency 1</u>	<u>TM-12, TM-13 & TM-14</u>
<u>Moisture</u>	<u>percent</u>	<u>Special Frequency 1</u>	<u>TM-22</u>
<u>Molecular weight of stack gases</u>	<u>grams per gram mole</u>	<u>Special Frequency 1</u>	<u>TM-23</u>
<u>Oxygen (O2)</u>	<u>percent</u>	<u>Special Frequency 1</u>	<u>TM-25</u>
<u>Solid Particles</u>	<u>milligrams per cubic metre</u>	<u>Special Frequency 1</u>	<u>TM-15</u>
<u>Sulphur dioxide</u>	<u>milligrams per cubic metre</u>	<u>Special Frequency 1</u>	<u>TM-4</u>
<u>Sulfuric acid mist and sulfur trioxide (as SO3 equivalent)</u>	<u>milligrams per cubic metre</u>	<u>Special Frequency 1</u>	<u>TM-3</u>
<u>Temperature</u>	<u>Celsius</u>	<u>Special Frequency 1</u>	<u>TM-2</u>
<u>Type 1 substance</u>	<u>milligrams per cubic metre</u>	<u>Special Frequency 1</u>	<u>TM-12, TM-13 & TM-14</u>
<u>Type 2 substance</u>	<u>milligrams per cubic metre</u>	<u>Special Frequency 1</u>	<u>TM-12, TM-13 & TM-14</u>
<u>Velocity</u>	<u>metres per second</u>	<u>Special Frequency 1</u>	<u>TM-2</u>
<u>volatile organic compounds as n-propane equivalent</u>	<u>milligrams per cubic metre</u>	<u>Special Frequency 1</u>	<u>TM-34</u>
<u>Volumetric flowrate</u>	<u>cubic metres per second</u>	<u>Special Frequency 1</u>	<u>TM-2</u>
<u>Hydrogen fluoride</u>	<u>milligrams per cubic metre</u>	<u>Yearly</u>	<u>TM-9</u>

Licence Variation Summary



Licence - 546

<u>Nitrogen Oxides</u>	<u>milligrams per cubic metre</u>	<u>Yearly</u>	<u>TM-11</u>
POINT 4,5,6,7			
Pollutant Name	Unit of Measure	Frequency	Sampling Method
Hydrogen fluoride	milligrams per cubic metre	Yearly	TM-9
<u>Hydrogen fluoride</u>	<u>milligrams per cubic metre</u>	<u>Yearly</u>	<u>TM-9</u>
Nitrogen Oxides	milligrams per cubic metre	Yearly	TM-11
<u>Nitrogen Oxides</u>	<u>milligrams per cubic metre</u>	<u>Yearly</u>	<u>TM-11</u>
Total Solid Particles	milligrams per cubic metre	Yearly	TM-15
<u>Total Solid Particles</u>	<u>milligrams per cubic metre</u>	<u>Yearly</u>	<u>TM-15</u>

Old condition:

For the purposes of condition M2.1, 'Special Frequency 1' is defined to be 1 day in 6 (during operation campaigns). Following the collection of data for the first year of operation, the data will be reviewed and, in consultation with the EPA, the value of long-term high volume air sampling monitoring will be established. Prior to Stage 2 and Stage 3 approval, the licensee must collect a minimum of one year of PM10 data (including non-campaign periods) for use as background data in an air quality impact assessment.

Replaced by:

For the purposes of condition M2.1, 'Special Frequency 1' means;
 Post commissioning emission sampling of the landfill gas (LFG) combustion must be undertaken within one (1) month of the LFG being used to fire the kiln; and
 On completion of the commissioning phase quarterly emission sampling must be undertaken of the LFG combustion; and
 A minimum of four emission sampling events must be completed per year, for the first year of the LFG combustion; and
 Sampling during combustion of LFG.

Environment Protection Licence

Licence - 546



Licence Details	
Number:	546
Anniversary Date:	31-October

Licensee
THE AUSTRAL BRICK CO PTY LTD
PO BOX 6550
WETHERILL PARK NSW 1851

Premises
AUSTRAL BRICK, PLANTS 1, 2 & 3.
738-780 WALLGROVE ROAD
HORSLEY PARK NSW 2175

Scheduled Activity
Ceramic Works
Crushing, Grinding or Separating
Extractive Activities
Mining for Minerals

Fee Based Activity	Scale
Ceramic waste generation	> 5-100 T generated or stored
Ceramics production	> 200000 T produced
Crushing, grinding or separating	> 500000-2000000 T processed
Land-based extractive activity	> 500000-2000000 T extracted, processed or stored
Mining for minerals	> 500000-2000000 T produced

Region
Metropolitan - Sydney Industry
Level 13, 10 Valentine Ave
PARRAMATTA NSW 2150
Phone: (02) 9995 5000
Fax: (02) 9995 6900
PO Box 668 PARRAMATTA
NSW 2124

CERAMICS PRODUCTION
 - ~~involves the~~ meaning the production of ceramics (other than glass) including products such as bricks, tiles, pipes, pottery goods.
 * ATEX DEFN.
 or refractories manufactured through a firing process.

CRUSHING, GRINDING OR SEPARATING
 - meaning the processing of material (incl sand, gravel, rock or minerals but not incl. waste of any description) by crushing, grinding or separating them into different sizes.

Environment Protection Licence



Licence - 546

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 Load limits	8
L3 Concentration limits	8
L4 Volume and mass limits	10
L5 Waste	10
L6 Noise limits	11
L7 Hours of operation	11
L8 Potentially offensive odour	11
4 OPERATING CONDITIONS	12
O1 Activities must be carried out in a competent manner	12
O2 Maintenance of plant and equipment	12
O3 Dust	12
O4 Effluent application to land	12
O5 Emergency response	13
O6 Processes and management	13
5 MONITORING AND RECORDING CONDITIONS	13
M1 Monitoring records	13
M2 Requirement to monitor concentration of pollutants discharged	13
M3 Testing methods - concentration limits	16

Environment Protection Licence

Licence - 546



M4	Recording of pollution complaints	16
M5	Telephone complaints line	17
M6	Requirement to monitor volume or mass	17
6	REPORTING CONDITIONS	17
R1	Annual return documents	17
R2	Notification of environmental harm	18
R3	Written report	19
7	GENERAL CONDITIONS	19
G1	Copy of licence kept at the premises or plant	19
8	POLLUTION STUDIES AND REDUCTION PROGRAMS	20
U1	PRP for a trial use of wastewater in the manufacture of bricks	20
DICTIONARY		24
	General Dictionary	24

Environment Protection Licence

Licence - 546



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 - 546



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:

THE AUSTRAL BRICK CO PTY LTD

PO BOX 6550

WETHERILL PARK NSW 1851

subject to the conditions which follow.

Environment Protection Licence

Licence - 546



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
Ceramic Works	Ceramic waste generation	> 5 - 100 T generated or stored
Ceramic Works	Ceramics production	> 200000 T produced
Crushing, Grinding or Separating	Crushing, grinding or separating	> 500000 - 2000000 T processed
Extractive Activities	Land-based extractive activity	> 500000 - 2000000 T extracted, processed or stored
Mining for Minerals	Mining for minerals	> 500000 - 2000000 T produced

A2 Premises or plant to which this licence applies

A2.1 The licence applies to the following premises:

Premises Details
AUSTRAL BRICK, PLANTS 1, 2 & 3.
738-780 WALLGROVE ROAD
HORSLEY PARK
NSW 2175
LOT 4 DP 235478, LOT 1 DP 843901, LOT 7 DP 1059698

A3 Information supplied to the EPA

A3.1 Works and activities must be carried out in accordance with the proposal contained in the licence application, except as expressly provided by a condition of this licence.

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

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

Environment Protection Licence

Licence - 546



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
4	Discharge to air; Air emissions monitoring	Discharge to air; Air emissions monitoring	Stack for Kiln Number 1 on Plant 1 as shown on drawing attached to Licence Information Form dated 24 September 1999
5	Discharge to air; Air emissions monitoring	Discharge to air; Air emissions monitoring	Stack for Kiln Number 5 at Plant 2 as shown on drawing attached to Licence Information Form dated 24 September 1999
6	Discharge to air; Air emissions monitoring	Discharge to air; Air emissions monitoring	Stack for Kiln number 6 on Plant 3 known as Swindle kiln as shown on drawing attached to Licence Information Form dated 24 September 1999
7	Discharge to air; Air emissions monitoring	Discharge to air; Air emissions monitoring	Stack for Kiln number 7 on Plant 3 known as Ceric kiln as shown on drawing attached to Licence Information Form dated 24 September 1999

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 and water quality monitoring	Discharge to waters and water quality monitoring	Overflow outlet from sediment pond at Plant 1 to Eastern Creek on the eastern side of Pit 1 on map attached to Licence Information Form dated 24 September 1999
2	Discharge to waters and water quality monitoring	Discharge to waters and water quality monitoring	End of 200 mm diameter pipe from pump located adjacent to Plant No. 2 pit as indicated on drawing attached to Licence Information Form dated 24 September 1999

Environment Protection Licence

Licence - 546



3	Discharge to waters and water quality monitoring	Discharge to waters and water quality monitoring	Outlet of 150 mm pipe that discharges from a pump located adjacent to Pit 3 as indicated on drawing attached to Licence Information Form dated 24 September 1999
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3 Limit Conditions

L1 Pollution of waters

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

L2 Load limits

L2.1 The actual load of an assessable pollutant discharged from the premises during the reporting period must not exceed the load limit specified for the assessable pollutant in the table below.

L2.2 The actual load of an assessable pollutant must be calculated in accordance with the relevant load calculation protocol.

Assessable Pollutant	Load limit (kg)
Coarse Particulates (Air)	18200.00
Fine Particulates (Air)	110200.00
Fluoride (Air)	90000.00
Nitrogen Oxides - Summer (Air)	43000.00
Nitrogen Oxides (Air)	172000.00
Sulfur Oxides (Air)	225000.00

Note: An assessable pollutant is a pollutant which affects the licence fee payable for the licence.

L3 Concentration limits

L3.1 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.

L3.2 Where a pH quality limit is specified in the table, the specified percentage of samples must be within the specified ranges.

L3.3 To avoid any doubt, this condition does not authorise the pollution of waters by any pollutant other than

Environment Protection Licence

Licence - 546



those specified in the table\.

L3.4 Air Concentration Limits

POINT 4,5,6,7

Pollutant	Units of measure	100 percentile concentration limit	Reference conditions	Oxygen correction	Averaging period
Hydrogen fluoride	milligrams per cubic metre	50			
Total Solid Particles	milligrams per cubic metre	100			
Nitrogen Oxides	milligrams per cubic metre	2000			

L3.5 Water and/or Land Concentration Limits

POINT 1

Pollutant	Units of Measure	50 percentile concentration limit	90 percentile concentration limit	3DGM concentration limit	100 percentile concentration limit
Oil and Grease	milligrams per litre	-	-	-	10
pH	pH				6.5-8.5
Total suspended solids	milligrams per litre	-	-	-	50
Turbidity	nephelometric turbidity units	-	-	-	150

POINT 2

Pollutant	Units of Measure	50 percentile concentration limit	90 percentile concentration limit	3DGM concentration limit	100 percentile concentration limit
Oil and Grease	milligrams per litre	-	-	-	10
pH	pH				6.5-8.5
Total suspended solids	milligrams per litre	-	-	-	50

Environment Protection Licence



Licence - 546

Turbidity	nephelometric turbidity units	-	-	-	150
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POINT 3

Pollutant	Units of Measure	50 percentile concentration limit	90 percentile concentration limit	3DGM concentration limit	100 percentile concentration limit
Oil and Grease	milligrams per litre	-	-	-	10
pH	pH				6.5-8.5
Total suspended solids	milligrams per litre	-	-	-	50
Turbidity	nephelometric turbidity units	-	-	-	150

L4 Volume and mass limits

- L4.1 For each discharge point or utilisation area specified below (by a point number), the volume/mass of:
- liquids discharged to water; or
 - solids or liquids applied to the area;
- must not exceed the volume/mass limit specified for that discharge point or area.

Point	Unit of Measure	Volume/Mass Limit
1	kilolitres per day	22000
2	kilolitres per day	20000
3	kilolitres per day	34000

L5 Waste

- L5.1 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
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Environment Protection Licence

Licence - 546



NA	General or Specific exempted waste	Waste that meets all the conditions of a resource recovery exemption under Clause 51A of the Protection of the Environment Operations (Waste) Regulation 2005	As specified in each particular resource recovery exemption	NA
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

L6 Noise limits

L6.1 Noise from the premises must not exceed:

- a) an LA10 (15 minute) noise emission criterion of 50 dB(A) (7am to 10pm) Monday to Saturday and 8am to 10pm on Sundays and Public Holidays; and
- b) at all other times, an LA10 (15 minutes) noise emission criterion of 40 dB(A), except as expressly provided by this licence.

L6.2 Noise from the premises is to be measured or computed at any point within 30 metres of the boundary of the most affected residence to determine compliance with condition L6.1. 5dB(A) must be added if the noise is tonal or impulsive in character.

L7 Hours of operation

L7.1 Discharges from the pits, via discharge Points 1, 2 and 3, must only occur between hours of 0600 and 1800 Monday to Friday.

L8 Potentially offensive odour

L8.1 No condition in 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

Environment Protection Licence

Licence - 546



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 The premises must be maintained in a condition which minimises or prevents the emission of dust from the premises.

O4 Effluent application to land

O4.1 The quantity of effluent/solids applied to the utilisation area must not exceed the capacity of the area to effectively utilise the effluent/solids.

For the purpose of this condition, 'effectively utilise' includes the use of the effluent/solids for pasture or crop production, as well as the ability of the soil to absorb the nutrient, salt, hydraulic load and organic material.

O4.2 Effluent application to the utilisation area(s) must not occur in a manner that causes surface run-off from the utilisation area(s).

O4.3 Spray from effluent application to the utilisation area(s) must not drift beyond the boundary of the utilisation area(s) to which it has been applied.

O4.4 The licensee must retain the utilisation area.

O4.5 At least 14 days prior to a utilisation area being offered for sale, being disposed of or otherwise rendered unavailable for use, the EPA must be must be advised in writing of this intention.

O4.6 Public access to any effluent utilisation area must be denied during effluent application and until the effluent application area has dried.

O4.7 Adequate notices, warning the public not to drink or otherwise use the treated effluent, must be erected on the site. These notices must be legible English and in any other languages as may be necessary, and must indicate at least that the water in use is "Reclaimed Water - Unfit for Drinking".

Environment Protection Licence

Licence - 546



O5 Emergency response

O5.1 The licensee must maintain, and implement as necessary, a current emergency response plan for the premises. The licensee must keep the emergency response plan on the premises at all times. The emergency response plan must document systems and procedures to deal with all types of incidents (e.g. spills, explosions or fire) that may occur at the premises or that may be associated with activities that occur at the premises and which are likely to cause harm to the environment. If a current emergency response plan does not exist at the date on which this condition is attached to the licence, the licensee must develop an emergency response plan within three months of that date.

O6 Processes and management

O6.1 The licensee must ensure that any liquid and/or non liquid waste generated and/or stored at the premises is assessed and classified in accordance with the DECC Waste Classification Guidelines as in force from time to time.

O6.2 The licensee must ensure that waste identified for recycling is stored separately from other waste.

5 Monitoring and Recording Conditions

M1 Monitoring records

M1.1 The results of any monitoring required to be conducted by this licence or a load calculation protocol must be recorded and retained as set out in this condition.

M1.2 All records required to be kept by this licence must be:

- a) in a legible form, or in a form that can readily be reduced to a legible form;
- b) kept for at least 4 years after the monitoring or event to which they relate took place; and
- c) produced in a legible form to any authorised officer of the EPA who asks to see them.

M1.3 The following records must be kept in respect of any samples required to be collected for the purposes of this licence:

- a) the date(s) on which the sample was taken;
- b) the time(s) at which the sample was collected;
- c) the point at which the sample was taken; and
- d) the name of the person who collected the sample.

M2 Requirement to monitor concentration of pollutants discharged

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

Environment Protection Licence

Licence - 546



M2.2 Air Monitoring Requirements

POINT 4

Pollutant	Units of measure	Frequency	Sampling Method
Cadmium	milligrams per cubic metre	Special Frequency 1	TM-12, TM-13 & TM-14
Dry gas density	kilograms per cubic metre	Special Frequency 1	TM-23
Fluorine	milligrams per cubic metre	Special Frequency 1	TM-9
Hydrogen chloride	milligrams per cubic metre	Special Frequency 1	TM-8
Hydrogen fluoride	milligrams per cubic metre	Yearly	TM-9
Hydrogen Sulfide	milligrams per cubic metre	Special Frequency 1	TM-6
Mercury	milligrams per cubic metre	Special Frequency 1	TM-12, TM-13 & TM-14
Moisture	percent	Special Frequency 1	TM-22
Molecular weight of stack gases	grams per gram mole	Special Frequency 1	TM-23
Nitrogen Oxides	milligrams per cubic metre	Yearly	TM-11
Oxygen (O2)	percent	Special Frequency 1	TM-25
Solid Particles	milligrams per cubic metre	Special Frequency 1	TM-15
Sulfuric acid mist and sulfur trioxide (as SO3)	milligrams per cubic metre	Special Frequency 1	TM-3
Sulphur dioxide	milligrams per cubic metre	Special Frequency 1	TM-4
Temperature	Celsius	Special Frequency 1	TM-2
Type 1 substance	milligrams per cubic metre	Special Frequency 1	TM-12, TM-13 & TM-14
Type 2 substance	milligrams per cubic metre	Special Frequency 1	TM-12, TM-13 & TM-14
Velocity	metres per second	Special Frequency 1	TM-2
volatile organic compounds as n-propane equivalent	milligrams per cubic metre	Special Frequency 1	TM-34
Volumetric flowrate	cubic metres per second	Special Frequency 1	TM-2

POINT 5,6,7

Pollutant	Units of measure	Frequency	Sampling Method
Hydrogen fluoride	milligrams per cubic metre	Yearly	TM-9
Nitrogen Oxides	milligrams per cubic metre	Yearly	TM-11
Total Solid Particles	milligrams per cubic metre	Yearly	TM-15

M2.3 Water and/ or Land Monitoring Requirements

Environment Protection Licence

Licence - 546



POINT 1

Pollutant	Units of measure	Frequency	Sampling Method
Conductivity	microsiemens per centimetre	Daily during any discharge	Grab sample
Oil and Grease	milligrams per litre	Daily during any discharge	Grab sample
pH	pH	Daily during any discharge	Grab sample
Total suspended solids	milligrams per litre	Daily during any discharge	Grab sample
Turbidity	nephelometric turbidity units	Daily during any discharge	Grab sample

POINT 2

Pollutant	Units of measure	Frequency	Sampling Method
Conductivity	microsiemens per centimetre	Daily during any discharge	Grab sample
Oil and Grease	milligrams per litre	Daily during any discharge	Grab sample
pH	pH	Daily during any discharge	Grab sample
Total suspended solids	milligrams per litre	Daily during any discharge	Grab sample
Turbidity	nephelometric turbidity units	Daily during any discharge	Grab sample

POINT 3

Pollutant	Units of measure	Frequency	Sampling Method
Conductivity	microsiemens per centimetre	Daily during any discharge	Grab sample
Oil and Grease	milligrams per litre	Daily during any discharge	Grab sample
pH	pH	Daily during any discharge	Grab sample
Total suspended solids	milligrams per litre	Daily during any discharge	Grab sample
Turbidity	nephelometric turbidity units	Daily during any discharge	Grab sample

M2.4 For the purposes of condition M2.1, 'Special Frequency 1' means;

- Post commissioning emission sampling of the landfill gas (LFG) combustion must be undertaken within one (1) month of the LFG being used to fire the kiln; and
- On completion of the commissioning phase quarterly emission sampling must be undertaken of the LFG combustion; and

Environment Protection Licence



Licence - 546

- A minimum of four emission sampling events must be completed per year, for the first year of the LFG combustion; and
- Sampling during combustion of LFG.

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:

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

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

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

M4 Recording of pollution complaints

M4.1 The licensee must keep a legible record of all complaints made to the licensee or any employee or agent of the licensee in relation to pollution arising from any activity to which this licence applies.

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

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

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

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

Environment Protection Licence

Licence - 546



M5 Telephone complaints line

- M5.1 The licensee must operate during its operating hours a telephone complaints line for the purpose of receiving any complaints from members of the public in relation to activities conducted at the premises or by the vehicle or mobile plant, unless otherwise specified in the licence.
- M5.2 The licensee must notify the public of the complaints line telephone number and the fact that it is a complaints line so that the impacted community knows how to make a complaint.
- M5.3 The preceding two conditions do not apply until 3 months after:
- the date of the issue of this licence or
 - 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:
- the volume of liquids discharged to water or applied to the area;
 - the mass of solids applied to the area;
 - the mass of pollutants emitted to the air;
- at the frequency and using the method and units of measure, specified below.

POINT 1

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

POINT 2

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

POINT 3

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

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 Statement of Compliance; and
 - 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

Environment Protection Licence

Licence - 546



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 Where the licensee is unable to complete a part of the Annual Return by the due date because the licensee was unable to calculate the actual load of a pollutant due to circumstances beyond the licensee's control, the licensee must notify the EPA in writing as soon as practicable, and in any event not later than the due date. The notification must specify:

- a) the assessable pollutants for which the actual load could not be calculated; and
- b) the relevant circumstances that were beyond the control of the licensee.

R1.7 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.

R1.8 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.

R1.9 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 - 546



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

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

R3 Written report

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

- a) where this licence applies to premises, an event has occurred at the premises; or
- b) where this licence applies to vehicles or mobile plant, an event has occurred in connection with the carrying out of the activities authorised by this licence, and the event has caused, is causing or is likely to cause material harm to the environment (whether the harm occurs on or off premises to which the licence applies), the authorised officer may request a written report of the event.

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

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

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

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

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.

Environment Protection Licence

Licence - 546



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 PRP for a trial use of wastewater in the manufacture of bricks

U1.1 U1 Pollution Reduction Program 1

Trial use of recycled water sourced from Worth Recycling' plant at Windsor and Coca Cola Amatil for brick manufacturing at the licensee's premise at Horsley Park

Aim

The aim of this PRP is to allow the licensee to carry out a limited trial usage of recycled water for its brick manufacturing process at Horsley Park. The trial is to be over twelve (12) months with three (3) quarterly reporting periods. This is to ensure that there are no adverse environmental impacts arising from the usage of this water. The recycled water for the trial will be supplied by Worth Recycling Pty Ltd after appropriate treatment at its Treatment Plant at Windsor and from Coca Cola Amatil.

Based on the outcome of this trial, the EPA may permit the ongoing usage of this recycled water in the future for brick manufacturing at the licensee's premises at Horsley Park.

Trial Commencement

The licensee must notify in writing the Manager Sydney, EPA, PO Box 668, Parramatta NSW 2124 within seven days of the commencement of the trial.

The Trial

The trial is for 12 months with quarterly reporting periods starting from the day of commencement and requires the licensee to monitor during the trial air emissions from the plant and the quality of the recycled water used in the brick making process as prescribed below:

U1.2 Air

a) Monitoring Points

For the purpose of this PRP, the licensee must monitor emissions from licence discharge points 4,5,6 and 7 specified in condition P1.1 of the licence.

b) Requirement to monitor

The licensee must monitor the emissions from licence discharge points 4,5,6 and 7 both before the trial commenced "pre trial emissions test" and as a minimum no sooner than five days after the trial has commenced "trial emission " (by sampling and obtaining results by analysis) the concentration of each pollutant specified in column 1. The licensee must use the units of measure and the sampling method specified in the table below.

Environment Protection Licence

Licence - 546



Note: Sampling and analysis of emissions from licence discharge points 4,5,6 and 7 must be conducted in accordance with the *Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales- Department of Environment and Conservation (NSW) (2005)*.

Pollutant	Units of Measure	Sampling Method	Frequency
Selection of sampling position		TM-1	Pre trial % during trial
Dry gas density	kg/m ³	TM-23	Pre trial & during trial
Moisture content of stack gases	%	TM-22	Pre trial & during trial
Molecular weight of stack gases	g/g-mole	TM-23	Pre trial & during trial
Speciated Volatile Organic Compounds	mg/m ³	TM-24	Pre trial & during trial
Chlorine	mg/m ³	TM-7	Pre trial & during trial
Type 1 Substances	mg/m ³	TM-12	Pre trial & during trial
Type 2 Substances	mg/m ³	TM-13	Pre trial & during trial
Solids Particles	mg/m ³	TM-15	Pre trial & during trial
Temperature	Degrees C	TM-2	Pre trial & during trial
Velocity	m/s	TM-2	Pre trial & during trial
Volumetric flow rate	m ³ /s	TM-2	Pre trial & during trial
Odour	ou	OM-8	Pre trial & during trial

U1.3 Recycled water

The licensee must monitor the concentration of each parameter (specified in column 1) for recycled water (by sampling and obtaining results by analysis) received from Coca Cola and Worth Recycling to demonstrate compliance with the concentration limits specified in the table below. The licensee must use the sampling method, the units of measure and sample at the frequency specified opposite in the other columns. The monitoring must be continued over the trial period.

Notes:

1. The recycled water sampling must incorporate a conductivity test and a specification developed during the trial for measuring conductivity.
2. All other parameters not marked specified in column 1 relate to Worth Recycling's Pty Ltd liquid waste.
3. The parameters specified in column 1 marked thus * relate to Coca Cola's liquid waste
4. The parameter specified in column 1 marked thus ** relate to both Coca Cola's and Worth Recycling's liquid waste.

Pollutant	Concentration Limit	Unit of Measure	Frequency	Sampling Method
**pH	6.5-9		Monthly	Grab sample
Volatile TPH C6-C9	5	mg/L	Monthly	Grab sample

Environment Protection Licence

Licence - 546



Petroleum Hydrocarbons C10-C14 C15-C28 C29-C36	5	mg/L total	Monthly	Grab sample
PAH	8	mg/L	Monthly	Grab sample
Arsenic	1	mg/L total	Monthly	Grab sample
Cadmium	1	mg/L	Monthly	Grab sample
Chromium	3	mg/L	Monthly	Grab sample
Copper	6	mg/L	Monthly	Grab sample
Lead	2	mg/L	Monthly	Grab sample
Manganese	5	mg/L	Monthly	Grab sample
Nickel	1	mg/L	Monthly	Grab sample
Mercury	0.03	mg/L	Monthly	Grab sample
Chlorine (C total)	50	mg/L	Monthly	Grab sample
Ammonia	32	mg/L	Monthly	Grab sample
Phosphorus	10	mg/L	Monthly	Grab sample
Iron	1	mg/L	Monthly	Grab Sample
* BOD	30	mg/L	Weekly	Grab sample
* Aluminium	To be determined	mg/L	Monthly	Grab sample
**Oil & grease	25	mg/L	Monthly	Grab sample
** Conductivity	To be determined	µS/cm	Monthly	Grab sample

U1.4 Post Trial

1. First 3 Months of the trial

Within 21 days of the completion of the first 3 months of trial a report must be submit to the EPA in writing to the Manager Sydney industry, PO Box 668, Parramatta NSW 2124. The report must include but not be limited to the following information on the brick manufacturing activity at the licensee's premises at Cecil Park:

- a) Brick production rate over the first 3 months of the trial.
- b) Total recycled water usage over the 3 months of the trial.
- c) Water usage (other than recycled water) over the first 3 months of the trial.
- d) The results of all monthly recycled water monitoring conducted during the first 3 months of the trial.
- e) A conductivity water specification.
- f) The results of all stack testing conducted during the first 3 months of the trail.

U1.5 2. Completion of the 12 month trial

Within 21 days of the completion of the trial a report must be submitted to the EPA in writing to the Manager Sydney Industry, PO Box 668, Parramatta NSW 2124. The report must include but not be limited to the following information on the brick manufacturing activity at the licensee, Cecil Park premises:

- a) Brick production rate over the 12 months of the trial.
- b) Total recycled water usage over the 12 months of the trial.

Environment Protection Licence

Licence - 546



- c) Water usage (other than recycled water) over the 12 months of the trial.
- d) The results of all monthly recycled water monitoring conducted during the 12 months of the trial.
- e) A conductivity water specification.
- f) The results of all stack testing conducted during 12 months of the trial.

Note: If the above monitoring results prove to be inappropriate and do not comply with requirements of the trial or the licence conditions the trial must cease.

Environment Protection Licence



Licence - 546

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 - 546

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 - 546



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 Tim Gilbert

Environment Protection Authority

(By Delegation)

Date of this edition: 10-March-2000

Environment Protection Licence

Licence - 546



End Notes

- 1 Licence varied by notice 1007259, issued on 05-Jul-2002, which came into effect on 30-Jul-2002.
- 2 Licence varied by notice 1035393, issued on 07-Apr-2004, which came into effect on 02-May-2004.
- 3 Licence varied by notice 1036813, issued on 31-May-2004, which came into effect on 25-Jun-2004.
- 4 Licence varied by notice 1047092, issued on 28-Apr-2005, which came into effect on 23-May-2005.
- 5 Licence varied by notice 1050547, issued on 02-Sep-2005, which came into effect on 27-Sep-2005.
- 6 Licence varied by notice 1057502, issued on 17-Aug-2006, which came into effect on 17-Aug-2006.
- 7 Licence varied by notice 1073917, issued on 19-Jul-2007, which came into effect on 19-Jul-2007.
- 8 Licence varied by change to legislation, issued on 25-Jul-2007, which came into effect on 25-Jul-2007.
- 9 Licence varied by notice 1079903, issued on 19-Nov-2007, which came into effect on 19-Nov-2007.
- 10 Condition A1.3 Not applicable varied by notice issued on <issue date> which came into effect on <effective date>
- 11 Licence varied by change to FBA for summer pollutants, issued on 15-Jan-2009, which came into effect on 15-Jan-2009.
- 12 Licence varied by notice 1103926, issued on 13-Oct-2009, which came into effect on 13-Oct-2009.
- 13 Licence varied by notice 1127114, issued on 06-Jun-2011, which came into effect on 06-Jun-2011.
- 14 Licence varied by notice 1506056 issued on 16-May-2012
- 15 Licence varied by notice 1513128 issued on 09-Apr-2013

