

Environment Protection Licence

Licence - 570

Licence Details

Number:	570
Anniversary Date:	02-July

Licensee

THE SHELL COMPANY OF AUSTRALIA LIMITED

PO BOX 872K

MELBOURNE VIC 3001

Premises

CLYDE TERMINAL

DURHAM STREET

CAMELLIA NSW 2142

Scheduled Activity

Chemical Storage

Waste Processing (non-thermal treatment)

Fee Based Activity

Scale

Non-thermal treatment of hazardous and other waste	> 0 T treated
Petroleum products storage	> 100000 kL stored

Region

Metropolitan - Sydney Industry

Level 13, 10 Valentine Ave

PARRAMATTA NSW 2150

Phone: (02) 9995 5000

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PO Box 668 PARRAMATTA

NSW 2124

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Information about this licence

Dictionary

A definition of terms used in the licence can be found in the dictionary at the end of this licence.

Responsibilities of licensee

Separate to the requirements of this licence, general obligations of licensees are set out in the Protection of the Environment Operations Act 1997 ("the Act") and the Regulations made under the Act. These include obligations to:

- ensure persons associated with you comply with this licence, as set out in section 64 of the Act;
- control the pollution of waters and the pollution of air (see for example sections 120 - 132 of the Act);
- report incidents causing or threatening material environmental harm to the environment, as set out in Part 5.7 of the Act.

Variation of licence conditions

The licence holder can apply to vary the conditions of this licence. An application form for this purpose is available from the EPA.

The EPA may also vary the conditions of the licence at any time by written notice without an application being made.

Where a licence has been granted in relation to development which was assessed under the Environmental Planning and Assessment Act 1979 in accordance with the procedures applying to integrated development, the EPA may not impose conditions which are inconsistent with the development consent conditions until the licence is first reviewed under Part 3.6 of the Act.

Duration of licence

This licence will remain in force until the licence is surrendered by the licence holder or until it is suspended or revoked by the EPA or the Minister. A licence may only be surrendered with the written approval of the EPA.

Licence review

The Act requires that the EPA review your licence at least every 5 years after the issue of the licence, as set out in Part 3.6 and Schedule 5 of the Act. You will receive advance notice of the licence review.

Fees and annual return to be sent to the EPA

For each licence fee period you must pay:

- an administrative fee; and
- a load-based fee (if applicable).

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The EPA publication “A Guide to Licensing” contains information about how to calculate your licence fees. The licence requires that an Annual Return, comprising a Statement of Compliance and a summary of any monitoring required by the licence (including the recording of complaints), be submitted to the EPA. The Annual Return must be submitted within 60 days after the end of each reporting period. See condition R1 regarding the Annual Return reporting requirements.

Usually the licence fee period is the same as the reporting period.

Transfer of licence

The licence holder can apply to transfer the licence to another person. An application form for this purpose is available from the EPA.

Public register and access to monitoring data

Part 9.5 of the Act requires the EPA to keep a public register of details and decisions of the EPA in relation to, for example:

- licence applications;
- licence conditions and variations;
- statements of compliance;
- load based licensing information; and
- load reduction agreements.

Under s320 of the Act application can be made to the EPA for access to monitoring data which has been submitted to the EPA by licensees.

This licence is issued to:

THE SHELL COMPANY OF AUSTRALIA LIMITED
PO BOX 872K
MELBOURNE VIC 3001

subject to the conditions which follow.

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1 Administrative Conditions

A1 What the licence authorises and regulates

- A1.1 This licence authorises the carrying out of the scheduled activities listed below at the premises specified in A2. The activities are listed according to their scheduled activity classification, fee-based activity classification and the scale of the operation.

Unless otherwise further restricted by a condition of this licence, the scale at which the activity is carried out must not exceed the maximum scale specified in this condition.

Scheduled Activity	Fee Based Activity	Scale
Waste Processing (non-thermal treatment)	Non-thermal treatment of hazardous and other waste	> 0 T treated
Chemical Storage	Petroleum products storage	> 100000 kL stored

A2 Premises or plant to which this licence applies

- A2.1 The licence applies to the following premises:

Premises Details
CLYDE TERMINAL
DURHAM STREET
CAMELLIA
NSW 2142
PART LOT 2 DP 224288, PART LOT 1 DP 383675, PART LOT 101 DP 809340
PART LOT 1 DP 109739, PART LOT 110 DP 499007.

- A2.2 In relation to A2.1 the premises is defined by the drawing labelled "Clyde Terminal EPL No.570 Licenced Discharge Points, drawing No. CLR_0126667_0004 Rev F"

A3 Other activities

- A3.1 This licence applies to all other activities carried on at the premises, including:

Ancillary Activity
Electricity Generating Works

A4 Information supplied to the EPA

- A4.1 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.

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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.

2 Discharges to Air and Water and Applications to Land

P1 Location of monitoring/discharge points and areas

- P1.1 The following points referred to in the table are identified in this licence for the purposes of the monitoring and/or the setting of limits for discharges of pollutants to water from the point.
- P1.2 The following utilisation areas referred to in the table below are identified in this licence for the purposes of the monitoring and/or the setting of limits for any application of solids or liquids to the utilisation area.

Water and land

EPA Identification no.	Type of Monitoring Point	Type of Discharge Point	Location Description
1	Discharge to waters Effluent quality and volume monitoring	Discharge to waters Effluent quality and volume monitoring	The biotreater effluent discharge steel pipe (200mm diameter) labelled "EPA ID No. 1" on drawing number CLR_0122667_0004 Rev E titled "Clyde Terminal, EPL No 570 Licenced Discharge Points".
2	Discharge to waters Effluent quality and volume monitoring	Discharge to waters Effluent quality and volume monitoring	Outlet serving main interceptor pumpout labelled "EPA ID No. 2" on drawing number CLR_0122667_0004 Rev E titled "Clyde Terminal, EPL No 570 Licenced Discharge Points".
4	Discharge to waters Volume monitoring	Discharge to waters Volume monitoring	Outlet on the southeast bank of Duck River serving B2 system pumpout labelled "EPA ID No. 4" on drawing number CLR_0122667_0004 Rev E titled "Clyde Terminal, EPL No 570 Licenced Discharge Points".
23	Discharge to waters Volume monitoring	Discharge to waters Volume monitoring	Flexihose outlet into concrete box pit labelled "EPA ID No. 23" on drawing number CLR_0122667_0004 Rev E titled "Clyde Terminal, EPL No 570 Licenced Discharge Points".

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24	Discharge to waters Volume monitoring	Discharge to waters Volume monitoring	Flexihose outlet into B2 basin labelled "EPA ID No. 24" on drawing number CLR_0122667_0004 Rev 0004 titled "Clyde Terminal, EPA Licence 570 Licenced Discharge Points".
25	Discharge to water Volume monitoring	Discharge to water Volume monitoring	Flexihose outlet into concrete retention basin labelled "EPA ID No. 25" on drawing number CLR_0122667_0004 Rev E titled "Clyde Terminal, EPL No 570 Licenced Discharge Points".
26	Effluent quality and volume monitoring		B2 system monitoring point adjacent to pump serving B2 system labelled "EPA ID No. 26" on drawing number CLR_0122667_0004 Rev E titled "Clyde Terminal EPL No 570 Licenced Discharge Points".
27	Discharge to water Volume monitoring	Discharge to water Volume monitoring	Flexible discharge point
28	Discharge to waters Water quality monitoring	Discharge to waters Water quality monitoring	Overflow from API Bays 1 & 2 as marked "EPA ID No. 28" on plan titled " Clyde Terminal EPL No. 570 Licenced Discharge Points, Drawing No. CLR_01256667_0004-RevF" submitted to the EPA in a letter dated 29 May 2014.
29	Discharge to waters Water quality monitoring	Discharge to waters Water quality monitoring	Overflow from API Bays 3 & 4 as marked "EPA ID No. 29" on plan titled " Clyde Terminal EPL No. 570 Licenced Discharge Points, Drawing No. CLR_01256667_0004-RevF" submitted to the EPA in a letter dated 29 May 2014.
30	Discharge to waters Water quality monitoring	Discharge to waters Water quality monitoring	Outlet serving interceptor as marked "EPA ID No. 30" on plan titled " Clyde Terminal EPL No. 570 Licenced Discharge Points, Drawing No. CLR_01256667_0004-RevF" submitted to the EPA in a letter dated 29 May 2014.

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.

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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)
Benzene (Air)	26000.00
Volatile organic compounds - Summer (Air)	
Volatile organic compounds (Air)	1250000.00

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\ 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 those specified in the table\.
- L3.4 Water and/or Land Concentration Limits

POINT 1

Pollutant	Units of Measure	50 percentile concentration limit	90 percentile concentration limit	3DGM concentration limit	100 percentile concentration limit
Biochemical oxygen demand	milligrams per litre	45	95		n/a
Fluoride	milligrams per litre	25	40		n/a
Nitrogen (ammonia)	milligrams per litre	6	30		n/a

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Oil and Grease	milligrams per litre	8	10	n/a
pH	pH			6.0-9.0
Phenols	milligrams per litre			0.5
TN	milligrams per litre	35	100	n/a
Total Phosphorus - unfiltered sample	milligrams per litre	1.5	6	n/a
Total suspended solids	milligrams per litre	30	60	n/a

POINT 2

Pollutant	Units of Measure	50 percentile concentration limit	90 percentile concentration limit	3DGM concentration limit	100 percentile concentration limit
pH	pH				6.0-9.0
Phenols	milligrams per litre				0.5
Total organic carbon	milligrams per litre				100
Total suspended solids	milligrams per litre				50

POINT 4

Pollutant	Units of Measure	50 percentile concentration limit	90 percentile concentration limit	3DGM concentration limit	100 percentile concentration limit
pH	pH				6.0-9.0
Phenols	milligrams per litre				0.5
Total organic carbon	milligrams per litre				100
Total suspended solids	milligrams per litre				50

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POINT 23,24,25

Pollutant	Units of Measure	50 percentile concentration limit	90 percentile concentration limit	3DGM concentration limit	100 percentile concentration limit
pH	pH				6.0-9.0
Total organic carbon	milligrams per litre				100
Total suspended solids	milligrams per litre				50

POINT 27

Pollutant	Units of Measure	50 percentile concentration limit	90 percentile concentration limit	3DGM concentration limit	100 percentile concentration limit
pH	pH				6.0-9.0
Total organic carbon	milligrams per litre				100
Total suspended solids	milligrams per litre				50

POINT 30

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				6.0-9.0
Total organic carbon	milligrams per litre				100
Total suspended solids	micrograms per litre				50

Note: TN refers to Total Nitrogen

L3.5 An exemption exists from Condition L3.3 for concentration limits for total suspended solids for Points 2 and 4, whereby within 48 hours of a rain period, the water that may be discharged must not exceed 80 mg/L total suspended solids.

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- L3.6 The water that is permissible to be discharged from points 1, 2, 4, 23, 24, 25 and 27 must not contain any visible oil or grease.

L4 Volume and mass limits

- L4.1 For each discharge point or utilisation area specified below (by a point number), the volume/mass of:
- a) liquids discharged to water; or;
 - b) 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	4000
2	kilolitres per day	5000
4	kilolitres per day	5000
30	kilolitres per day	5000

L5 Waste

- L5.1 The licensee must not cause, permit or allow any waste generated outside the premises to be received at the premises for storage, treatment, processing, reprocessing or disposal or any waste generated at the premises to be disposed of at the premises, except as expressly permitted by the licence.
- L5.2 This condition only applies to the storage, treatment, processing, reprocessing or disposal of waste at the premises if it requires an environment protection licence.
- L5.3 Except as provided by any other condition of this licence, only the Hazardous and/or Liquid and/or Restricted Solid waste listed below may be generated and/or stored at the premises.
- a) A100 Waste resulting from surface treatment of metals and plastics;
 - b) B100 Acidic solutions or acids in solid form;
 - c) C100 Basic solutions or bases in solid form;
 - d) D120 Mercury; mercury compounds;
 - e) D140 Chromium compounds (hexavalent and trivalent);
 - f) D210 Nickel compounds;
 - g) D220 Lead; lead compounds;
 - h) D270 Vanadium compounds;
 - i) D330 Inorganic sulfides;
 - j) D360 Phosphorus compounds excluding mineral phosphates;
 - k) F100 Waste from the production, formulation and use of inks, dyes, pigments, paints, lacquers and varnish;
 - l) G110 Organic solvents excluding halogenated solvents;
 - m) J100 Waste mineral oils unfit for their original intended use;
 - n) J120 Waste oil/water, hydrocarbons/water mixtures or emulsions;
 - o) J160 Waste tarry residues arising from refining, distillation, and any pyrolytic treatment;
 - p) M100 Waste substances and articles containing or contaminated with polychlorinated biphenyls (PCB)

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- s), polychlorinated naphthalenes (PCN's), polyterphenyls (PCT's) and/or polybrominated biphenyls (PBB's).
- q) M150 Phenols, phenol compounds including chlorophenols;
- r) M250 Surface active agents (surfactants), containing principally organic constituents and which may contain metals and inorganic materials;
- s) M260 Highly odorous organic chemicals (including mercaptans and acrylates);
- t) N100 Containers and drums which are contaminated with residues of substances referred to in this list;
- u) N120 Soils contaminated with a waste;
- v) N140 Fire debris and fire wash waters;
- w) N160 Encapsulated, chemically-fixed, solidified or polymerised wastes;
- x) N190 Filter cake;
- y) N230 Ceramic-based fibres with physicochemical characteristics similar to those of asbestos;
- z) R100 Clinical and related wastes;
- aa) T190 (or N205) Residues from industrial waste treatment/disposal operations;
- bb) Z100 Organic compounds nos (i.e. aliphatic nitrogen compounds); and
- cc) Z110 Inorganic compounds nos.

- L5.4 Except as provided by any other condition of this licence, only the Hazardous and/or Liquid and/or Restricted Solid waste listed below may be received at the premises from the Shell Refining (Australia) Proprietary Limited, Gore Bay premises Environment Protection Licence (EPL) 661 or The Shell Company of Australia Limited, Parramatta Terminal EPL 660 for treatment, processing, reprocessing or disposal at the premises:
- a) J100 Waste mineral oils unfit for their original intended use,
 - b) J120 Waste oil/water, hydrocarbons/water mixtures or emulsions,
 - c) M260 Highly odorous organic chemicals (including mercaptans and acrylates), and
 - d) N120 Soils contaminated with a controlled waste.
- L5.5 The licensee may receive Hazardous and/or Liquid and/or Restricted Solid waste from the Shell Refining (Australia) Proprietary Limited, Gore Bay premises EPL 661 without the need for waste tracking but a record of the waste received must be made.
- L5.6 Except as provided by any other condition of this licence, only the Hazardous and/or Liquid and/or Restricted Solid waste listed below may be received via pipeline only from Sydney Metropolitan Pipeline EPL 1969 and Joint User Hydrant Installation (JUHI) for treatment, processing, reprocessing or disposal at the premises without the need for waste tracking.
- a) J120 Waste oil/water, hydrocarbons/water mixtures or emulsions.
- L5.7 Except as provided by any other condition of this licence, only the Hazardous and/or Liquid and/or Restricted Solid waste listed below may be treated, processed, reprocessed or disposed of at the premises.
- a) A100 Waste resulting from the surface treatment of metals and plastics,
 - b) C100 Basic solutions or bases in solid form,
 - c) J120 Waste oil/water, hydrocarbons/water mixtures or emulsions,
 - d) M260 Highly odorous organic chemicals (including mercaptans and acrylates),
 - e) N120 Soils contaminated with a controlled waste,
 - f) N160 Encapsulated, chemically-fixed, solidified or polymerised wastes, and
 - g) T190 Residues from industrial waste treatment/disposal operations.
- L5.8 Except as provided by any other condition of this licence, only Hazardous and/or Liquid and/or Restricted Solid waste may be received from Basell Australia Pty Ltd EPL 5104 for treatment, processing,

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reprocessing or disposal at the premises without the need for waste tracking.

- a) J120 Waste oil/water, hydrocarbons/water mixtures or emulsions;
- b) C100 Basic solutions or bases in solid form

L5.9 Except as provided by any other condition of this licence, only the Hazardous and/or Liquid and/or Restricted Solid waste listed below may be received from Park Pty Ltd (EPL 654) for treatment or processing at the premises without the need for waste tracking:

- (a) J120 Waste oil/water, hydrocarbons/water mixtures or emulsions.

L5.10 After onsite treatment to reduce hydrocarbon contamination of soil or sediment to less than 1% on a weight basis, such treated waste may be disposed of onsite in the area marked "Treated Material Onsite Disposal Site (TPH < 1%)" as shown on drawing number CLR_0122667_0004 Rev E titled "Clyde Terminal EPL 570 Licenced discharge points."

Note: The licensee must comply with the conditions as specified in this licence or where no specific conditions are outlined in this licence, the licensee must comply with the Protection of the Environment Operations (Waste) Regulation 1996.

L6 Potentially offensive odour

L6.1 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.

L7 Other limit conditions

Note: The licensee must comply with the conditions as specified in this licence or where no specific conditions are outlined in this licence, the licensee must comply with the "Chemical Control Order in Relation to Materials and Wastes Containing Polychlorinated Biphenyl, 1997".

L7.1 The licensee may receive less than 100 tonnes per annum of biotreater sludge from another biological wastewater treatment plant in quantities sufficient for re-seeding (innoculating) the biological wastewater treatment plant.

Note: For the purposes of this licence, biotreater sludge used for re-seeding (inoculating) the biological wastewater treatment plant is not considered to be a waste.

4 Operating Conditions

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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 Emergency response

O4.1 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.

O5 Processes and management

- O5.1 The licensee must ensure that any liquid and/or non-liquid waste generated and/or stored and/or treated and/or processed and/or reprocessed and/or disposed at the premises is assessed and classified in accordance with the DECC Waste Classification Guidelines as in force from time to time.
- O5.2 On-site waste management processes must comply with procedures outlined in the figure attached to the letter dated 4 November 2003 prepared by Shell Refining (Australia) Pty Ltd.
- O5.3 Biotreater filter cake must be treated in the drying area as defined by the shaded area labelled "Drying Bays" on drawing number CLR_0122667_0004 Rev E titled "Clyde Terminal, EPL No 570 Licenced Discharge Points."
- O5.4 Soil contaminated with hydrocarbons must be treated in the landfarm area as defined by the shaded area labelled "Landfarm" on drawing number CLR_0122667_0004 Rev E titled "Clyde Terminal, EPL No

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570, Licenced Discharge Points."

- O5.5 Treated soil contaminated with hydrocarbons must be disposed of in the disposal area as defined by the shaded area labelled "Treated Material Onsite Disposal Site (TPH < 1%)" on drawing number CLR_0122667_0004 titled "Clyde Terminal, EPL 570 Licence Discharge Points" or taken offsite to a place that can lawfully accept that class of waste.

O6 Waste management

- O6.1 The licensee must ensure that waste identified for recycling is stored separately from other waste.
- O6.2 All above ground tanks containing material that is likely to cause environmental harm must be bunded or have an alternative spill containment system in place.
- O6.3 The licensee must ensure that suitable measures (e.g. high/low alarms, control valves with interlock control, one way valves) are installed on all tanks, ponds or clarifiers and associated pipes and hoses to prevent the spillage of waste.
- O6.4 Dewatered oily sludge must be treated in the sludge dewatering facility and/or landfarm as defined by the shaded areas labelled "Sludge Dewatering Facility" and "Landfarm" on drawing number CLR_0122667_0004 Rev E titled "Clyde Terminal, EPL No 570 Licenced Discharge Points" or disposed of off site to a place that can lawfully accept that class of waste.

O7 Other operating conditions

- O7.1 Discharges to Duck River at Point 23, 24, and 25 must only be a result of dewatering from bunded areas in the tank farm or from water pressure testing of chemical storage tanks within the premises.
- O7.2 Discharges to Duck River at Point 27:
- a) must only be a result of dewatering from bunded areas or from water pressure testing of chemical storage tanks within the western tank farms; and
 - b) The licensee must notify the EPA at least 7 days in advance of any discharge; and
 - c) The licensee must undertake water sampling of the subject chemical storage tank prior to any discharge and provide the laboratory results to the EPA.

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.

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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 the purposes of Condition M2.1 of this licence Special Frequency 1 means that monitoring must be carried out monthly during any discharge, but if results of sample analysis indicate a possible breach of the discharge limits for Point 1 as listed in Condition L3.4 of this licence, sampling from EPA Point 1 must be carried out daily during discharge until sample analysis confirms that levels of contaminants in the discharge are below the discharge limits listed for Point 1 in Condition L3.4 of this licence.

Note: Daily sampling from EPA Point 1 as defined by Special Frequency 1 is only required to be carried out for the analyte suspected of breaching licence limits.

Note: Results of daily sampling from EPA Point 1 as defined by Special Frequency 1 are not required to be used when calculating compliance with Condition L3.4. The licensee must still provide a representative sample from EPA Point 1 during discharge, as per Condition M2.1.

M2.2 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:

M2.3 Water and/ or Land Monitoring Requirements

POINT 1

Pollutant	Units of measure	Frequency	Sampling Method
Biochemical oxygen demand	milligrams per litre	Special Frequency 1	Grab sample
Fluoride	milligrams per litre	Special Frequency 1	Grab sample
Nitrogen (ammonia)	milligrams per litre	Special Frequency 1	Grab sample
Oil and Grease	milligrams per litre	Special Frequency 1	Grab sample
pH	pH	Special Frequency 1	Grab sample
Phenols	milligrams per litre	Special Frequency 1	Grab sample
TN	milligrams per litre	Special Frequency 1	Grab sample
Total petroleum hydrocarbons	milligrams per litre	Special Frequency 1	Grab sample
Total Phosphorus - unfiltered sample	milligrams per litre	Special Frequency 1	Grab sample
Total suspended solids	milligrams per litre	Special Frequency 1	Grab sample

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POINT 2

Pollutant	Units of measure	Frequency	Sampling Method
pH	pH	Daily during any discharge	Grab sample
Phenols	milligrams per litre	Daily during any discharge	Grab sample
Total organic carbon	milligrams per litre	Daily during any discharge	Grab sample
Total suspended solids	milligrams per litre	Daily during any discharge	Grab sample

POINT 23,24,25

Pollutant	Units of measure	Frequency	Sampling Method
pH	pH	<24hrs prior to discharge	Grab sample
Total organic carbon	milligrams per litre	<24hrs prior to discharge	Grab sample
Total suspended solids	milligrams per litre	<24hrs prior to discharge	Grab sample

POINT 26

Pollutant	Units of measure	Frequency	Sampling Method
pH	pH	Daily during any discharge	Grab sample
Phenols	milligrams per litre	Daily during any discharge	Grab sample
Total organic carbon	milligrams per litre	Daily during any discharge	Grab sample
Total petroleum hydrocarbons	milligrams per litre	Daily during any discharge	Grab sample
Total suspended solids	milligrams per litre	Daily during any discharge	Grab sample

POINT 27

Pollutant	Units of measure	Frequency	Sampling Method
pH	pH	<24hrs prior to discharge	Grab sample
Total organic carbon	milligrams per litre	<24hrs prior to discharge	Grab sample
Total suspended solids	milligrams per litre	<24hrs prior to discharge	Grab sample

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Pollutant	Units of measure	Frequency	Sampling Method
pH	pH	Each overflow event	Grab sample
Total organic carbon	micrograms per litre	Each overflow event	Grab sample
Total suspended solids	milligrams per litre	Each overflow event	Grab sample

POINT 29

Pollutant	Units of measure	Frequency	Sampling Method
pH	pH	Each overflow event	Grab sample
Total organic carbon	micrograms per litre	Each overflow event	Grab sample
Total suspended solids	micrograms per litre	Each overflow event	Grab sample

POINT 30

Pollutant	Units of measure	Frequency	Sampling Method
Oil and Grease	milligrams per litre	Daily during any discharge	Composite sample
pH	pH	Daily during any discharge	Composite sample
Total organic carbon	micrograms per litre	Daily during any discharge	Composite sample
Total suspended solids	micrograms per litre	Daily during any discharge	Composite sample

M2.4 The monitoring results collected at Point 26 in compliance with Condition M2.1 can be used to determine compliance with the concentration limit specified in Condition L3.4 for discharge from Point 4.

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 Testing methods - load limits

Note: Division 3 of the *Protection of the Environment Operations (General) Regulation 2009* requires that monitoring of actual loads of assessable pollutants listed in L2.2 must be carried out in accordance with the relevant load calculation protocol set out for the fee-based activity classification listed in the Administrative Conditions of this licence.

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M5 Recording of pollution complaints

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

M6 Telephone complaints line

- M6.1 The licensee must operate during its operating hours a telephone complaints line for the purpose of receiving any complaints from members of the public in relation to activities conducted at the premises or by the vehicle or mobile plant, unless otherwise specified in the licence.
- M6.2 The licensee must notify the public of the complaints line telephone number and the fact that it is a complaints line so that the impacted community knows how to make a complaint.
- M6.3 The preceding two conditions do not apply until 3 months after:
- a) the date of the issue of this licence or
 - b) if this licence is a replacement licence within the meaning of the Protection of the Environment Operations (Savings and Transitional) Regulation 1998, the date on which a copy of the licence was served on the licensee under clause 10 of that regulation.

M7 Requirement to monitor volume or mass

- M7.1 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 1

Frequency	Unit of Measure	Sampling Method
Daily during any discharge	kilolitres per day	Flow meter and continuous logger

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POINT 2

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

POINT 4

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

POINT 23

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

POINT 24

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

POINT 25

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

POINT 27

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

POINT 30

Frequency	Unit of Measure	Sampling Method
Daily during any discharge	kilolitres per day	Inspection

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 completed and returned to the EPA.

- R1.2 An Annual Return must be prepared in respect of each reporting period, except as provided below.

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- 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.

Note: The term "reporting period" is defined in the dictionary at the end of this licence. Do not complete the Annual Return until after the end of the reporting period.

Note: An application to transfer a licence must be made in the approved form for this purpose.

R2 Notification of environmental harm

- R2.1 Notifications must be made by telephoning the Environment Line service on 131 555.
- R2.2 The licensee must provide written details of the notification to the EPA within 7 days of the date on which the incident occurred.

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

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

G2 Signage

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- G2.1 The location of EPA point number(s) 1, 2, 4, 23, 24, 25, 26 must be clearly marked by signs that indicate the point identification number used in this licence and be located as close as practical to the point.

G3 Other general conditions

G3.1 Completed Pollution Studies and Reduction Programs (PRPs)

PRP	Description	Completed Date
Flare Noise Reduction Report - assessment of reaso	Flare Noise Reduction Report - assessment of reasonable and feasible measures to achieve further flare noise reduction.. report only (but includes details of reduction in noise achieved by a range of measures).	07-April-2005
Second stage - assessment of effectiveness of opti	Second stage - assessment of effectiveness of options to remove phase stable hydrocarbons. report only	30-April-2004
Stage 2 of works and reports to improve water qual	Stage 2 of works and reports to improve water quality of wet weather discharges. Nine items involved in these works.. Improvement in water quality of wet weather discharges	01-January-2006
Landfarm leachate collection system installed - re	Landfarm leachate collection system installed - redirect discharge to treatment plant instead of discharge to stormwater system.. improve water quality of wet weather discharges	21-May-2004
PRP 6 - To develop a remedial action plan for tria	PRP 6 - To develop a remedial action plan for trialing groundwater technolgoies.. To reduce the groundwater contamination	07-April-2005
PRP 9 - VOC Air Quality Impact Assessment. The aim	PRP 9 - VOC Air Quality Impact Assessment. The aim is to investigate the impact of VOC emissions from the premises.. Will have an assessment against the DECC ground level concentrations.(*)	28-September-2008
PRP 10 - Boiler 7 and 9 Stack NOx Emission Limit.	PRP 10 - Boiler 7 and 9 Stack NOx Emission Limit. The aim is to develop a concentration limit for NOx for the common stack for Boiler 7 and 9.. Shell will have a limit they will need to comply with which takes into account the DECC ground level concentration criteria from the Approved Methods.(*)	31-October-2007
PRP 11 - NOx emission reduction study. The aim of	PRP 11 - NOx emission reduction study. The aim of this study is to investigate industry best practise technologies for reducing NOx emissions across the site.. Investigation phase complete. Low NOx burners will be introduced during migration to Group 6.(*)	30-July-2008

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PRP 12 - Noise Investigation and Abatement Measure	PRP 12 - Noise Investigation and Abatement Measures. The aim of this PRP is to undertake investigations and implement noise abatement measures and/or strategies so that noise generated does not exceed the PSNL in the INP at the most effected receiver.. Reduction in noise generated from the site.(+)	31-December-2009
PRP 13 - PCB Removal Program. The aim of this PRP	PRP 13 - PCB Removal Program. The aim of this PRP is to develop a plan to remove PCB from the site in accordance with the PCB CCO.. Removal and destruction of PCB contaminated oil from the site.(&)	29-February-2008
Soil and Groundwater Management Monitoring Program	Soil and Groundwater Management Monitoring Program (SGMP) Review	29-March-2011

8 Pollution Studies and Reduction Programs

U1 Soil and Groundwater monitoring program

Reporting on Soil and Groundwater Monitoring and Investigation Activities

- U1.1 On or before 31 March 2011 and annually thereafter, a report must be submitted to the: Manager Sydney Industry, EPA, PO Box 668, Parramatta, NSW 2124. The report must include;
- (a) A summary of the groundwater monitoring results for the previous 12 months.
 - (b) Details of any soil or groundwater investigations undertaken and the results of such investigations.
 - (c) Details of the progress against works proposed in the previous report.
 - (d) An update of the CSM (if conditions change significantly)
 - (e) An update of the Soil and Groundwater Monitoring Program (SGMP) if required.

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Dictionary

General Dictionary

3DGM [in relation to a concentration limit]	Means the three day geometric mean, which is calculated by multiplying the results of the analysis of three samples collected on consecutive days and then taking the cubed root of that amount. Where one or more of the samples is zero or below the detection limit for the analysis, then 1 or the detection limit respectively should be used in place of those samples
Act	Means the Protection of the Environment Operations Act 1997
activity	Means a scheduled or non-scheduled activity within the meaning of the Protection of the Environment Operations Act 1997
actual load	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
AM	Together with a number, means an ambient air monitoring method of that number prescribed by the <i>Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales</i> .
AMG	Australian Map Grid
anniversary date	The anniversary date is the anniversary each year of the date of issue of the licence. In the case of a licence continued in force by the Protection of the Environment Operations Act 1997, the date of issue of the licence is the first anniversary of the date of issue or last renewal of the licence following the commencement of the Act.
annual return	Is defined in R1.1
Approved Methods Publication	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
assessable pollutants	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
BOD	Means biochemical oxygen demand
CEM	Together with a number, means a continuous emission monitoring method of that number prescribed by the <i>Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales</i> .
COD	Means chemical oxygen demand
composite sample	Unless otherwise specifically approved in writing by the EPA, a sample consisting of 24 individual samples collected at hourly intervals and each having an equivalent volume.
cond.	Means conductivity
environment	Has the same meaning as in the Protection of the Environment Operations Act 1997
environment protection legislation	Has the same meaning as in the Protection of the Environment Administration Act 1991
EPA	Means Environment Protection Authority of New South Wales.
fee-based activity classification	Means the numbered short descriptions in Schedule 1 of the Protection of the Environment Operations (General) Regulation 2009.
general solid waste (non-putrescible)	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997

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flow weighted composite sample	Means a sample whose composites are sized in proportion to the flow at each composites time of collection.
general solid waste (putrescible)	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
grab sample	Means a single sample taken at a point at a single time
hazardous waste	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
licensee	Means the licence holder described at the front of this licence
load calculation protocol	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
local authority	Has the same meaning as in the Protection of the Environment Operations Act 1997
material harm	Has the same meaning as in section 147 Protection of the Environment Operations Act 1997
MBAS	Means methylene blue active substances
Minister	Means the Minister administering the Protection of the Environment Operations Act 1997
mobile plant	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
motor vehicle	Has the same meaning as in the Protection of the Environment Operations Act 1997
O&G	Means oil and grease
percentile [in relation to a concentration limit of a sample]	Means that percentage [eg.50%] of the number of samples taken that must meet the concentration limit specified in the licence for that pollutant over a specified period of time. In this licence, the specified period of time is the Reporting Period unless otherwise stated in this licence.
plant	Includes all plant within the meaning of the Protection of the Environment Operations Act 1997 as well as motor vehicles.
pollution of waters [or water pollution]	Has the same meaning as in the Protection of the Environment Operations Act 1997
premises	Means the premises described in condition A2.1
public authority	Has the same meaning as in the Protection of the Environment Operations Act 1997
regional office	Means the relevant EPA office referred to in the Contacting the EPA document accompanying this licence
reporting period	For the purposes of this licence, the reporting period means the period of 12 months after the issue of the licence, and each subsequent period of 12 months. In the case of a licence continued in force by the Protection of the Environment Operations Act 1997, the date of issue of the licence is the first anniversary of the date of issue or last renewal of the licence following the commencement of the Act.
restricted solid waste	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
scheduled activity	Means an activity listed in Schedule 1 of the Protection of the Environment Operations Act 1997
special waste	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
TM	Together with a number, means a test method of that number prescribed by the <i>Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales</i> .

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TSP	Means total suspended particles
TSS	Means total suspended solids
Type 1 substance	Means the elements antimony, arsenic, cadmium, lead or mercury or any compound containing one or more of those elements
Type 2 substance	Means the elements beryllium, chromium, cobalt, manganese, nickel, selenium, tin or vanadium or any compound containing one or more of those elements
utilisation area	Means any area shown as a utilisation area on a map submitted with the application for this licence
waste	Has the same meaning as in the Protection of the Environment Operations Act 1997
waste type	Means liquid, restricted solid waste, general solid waste (putrescible), general solid waste (non - putrescible), special waste or hazardous waste

Mr Warren Hicks

Environment Protection Authority

(By Delegation)

Date of this edition: 27-November-2000

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End Notes

- 1 Licence varied by notice 1007241, issued on 18-Sep-2002, which came into effect on 19-Sep-2002.
- 2 Licence varied by notice 1026907, issued on 06-Apr-2004, which came into effect on 01-May-2004.
- 3 Licence varied by notice 1038405, issued on 13-Jul-2004, which came into effect on 07-Aug-2004.
- 4 Licence varied by notice 1072337, issued on 20-Apr-2007, which came into effect on 20-Apr-2007.
- 5 Licence varied by notice 1072642, issued on 29-Jun-2007, which came into effect on 29-Jun-2007.
- 6 Licence varied by change to legislation, issued on 30-Jun-2007, which came into effect on 30-Jun-2007.
- 7 Licence varied by notice 1077898, issued on 10-Sep-2007, which came into effect on 10-Sep-2007.
- 8 Licence varied by notice 1078818, issued on 22-Nov-2007, which came into effect on 22-Nov-2007.
- 9 Licence varied by notice 1083061, issued on 10-Jul-2008, which came into effect on 10-Jul-2008.
- 10 Licence varied by notice 1097601, issued on 19-Feb-2009, which came into effect on 19-Feb-2009.
- 11 Licence varied by notice 1103064, issued on 30-Jun-2009, which came into effect on 30-Jun-2009.
- 12 Licence varied by notice 1104053, issued on 14-Jul-2009, which came into effect on 14-Jul-2009.
- 13 Licence varied by notice 1104346, issued on 23-Jul-2009, which came into effect on 23-Jul-2009.
- 14 Licence varied by notice 1106244, issued on 09-Sep-2009, which came into effect on 09-Sep-2009.
- 15 Licence varied by notice 1107091, issued on 12-Oct-2009, which came into effect on 12-Oct-2009.
- 16 Licence varied by notice 1110022, issued on 17-Dec-2009, which came into effect on 17-Dec-2009.
- 17 Licence varied by notice 1113120, issued on 09-Apr-2010, which came into effect on 09-Apr-2010.
- 18 Licence varied by notice 1115148, issued on 08-Jun-2010, which came into effect on 08-Jun-2010.

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19	Licence varied by notice 1115589, issued on 16-Aug-2010, which came into effect on 16-Aug-2010.
20	Licence varied by notice 1119052, issued on 15-Sep-2010, which came into effect on 15-Sep-2010.
21	Licence varied by notice 1119637, issued on 05-Nov-2010, which came into effect on 05-Nov-2010.
22	Licence varied by notice 1124116, issued on 01-Feb-2011, which came into effect on 01-Feb-2011.
23	Licence varied by notice 1126504, issued on 17-May-2011, which came into effect on 17-May-2011.
24	Licence varied by notice 1128639, issued on 24-May-2011, which came into effect on 24-May-2011.
25	Licence varied by notice 1503483 issued on 21-Dec-2011
26	Licence varied by notice 1504844 issued on 11-Apr-2012
27	Licence varied by notice 1505973 issued on 09-May-2012
28	Licence varied by notice 1506538 issued on 10-Jul-2012
29	Licence varied by notice 1507399 issued on 19-Jul-2012
30	Licence varied by notice 1509941 issued on 21-Dec-2012
31	Licence transferred through application 1514237 approved on 17-May-2013 , which came into effect on 01-Mar-2013
32	Licence varied by notice 1522608 issued on 13-Jun-2014
33	Licence varied by notice 1523183 issued on 30-Jun-2014
34	Licence varied by notice 1523429 issued on 22-Jul-2014