

Environment Protection Licence

Licence - 837

Licence Details	
Number:	837
Anniversary Date:	02-May

Licensee
AMPOL REFINERIES (NSW) PTY LTD
LOCKED BAG 2000
TAREN POINT NSW 2229

Premises
AMPOL REFINERIES (NSW) PTY LTD
2 SOLANDER STREET
KURNELL NSW 2231

Scheduled Activity
Chemical storage
Shipping in bulk

Fee Based Activity	Scale
Chemical storage waste generation	> 100 T amount of waste on site at any time
Petroleum products storage	> 100000 kL storage capacity
Shipping in bulk	> 500000 T of annual capacity to load and unload

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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:

AMPOL REFINERIES (NSW) PTY LTD
LOCKED BAG 2000
TAREN POINT NSW 2229

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
Chemical storage	Chemical storage waste generation	> 100 T amount of waste on site at any time
Chemical storage	Petroleum products storage	> 100000 kL storage capacity
Shipping in bulk	Shipping in bulk	> 500000 T of annual capacity to load and unload

A2 Premises or plant to which this licence applies

A2.1 The licence applies to the following premises:

Premises Details
AMPOL REFINERIES (NSW) PTY LTD
2 SOLANDER STREET
KURNELL
NSW 2231
LOT 56 DP 908, LOT 57 DP 908, LOT 62 DP 908, LOT 11 DP 7632, LOT 12 DP 7632, LOT 189 DP 7632, LOT 190 DP 7632, LOT 43 DP 8135, LOT 44 DP 8135, LOT 45 DP 8135, LOT 46 DP 8135, LOT 77 DP 8135, LOT 78 DP 8135, LOT 79 DP 8135, LOT 122 DP 8135, LOT 123 DP 8135, LOT 124 DP 8135, LOT 125 DP 8135, PART LOT 137 DP 8135, PART LOT 138 DP 8135, LOT 151 DP 8135, LOT 152 DP 8135, LOT 48 DP 9564, LOT 77 DP 9564, LOT 78 DP 9564, PART LOT 81 DP 9564, PART LOT 1 DP 126647, PART LOT 2 DP 126647, LOT 1 DP 132055, LOT 1 DP 215818, LOT 2 DP 215818, PART LOT 1 DP 215819, LOT B DP 338897, LOT D DP 361103, LOT F DP 361103, LOT G DP 361103, LOT J DP 362655, LOT K DP 362655, LOT H DP 362655, LOT 146 DP 455883, LOT 147 DP 455883, LOT 148 DP 455883, LOT 1 DP 652262, LOT 139 DP 662996, LOT 139 DP 662997, LOT 283 DP 752064, LOT 570 DP 752064, LOT 24 DP 776328, LOT 25 DP 776328, LOT 1 DP 1044690, LOT 1 DP 1087718, LOT 2 DP 1087718, LOT 3 DP 1087718, LOT 4 DP 1087718, LOT 5 DP 1087718, LOT 6 DP 1087718, LOT 1 DP 1087807, LOT 2 DP 1087807

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LOT 1 PO1967/168

THE PREMISES, TO WHICH THE LICENCE APPLIES, ALSO INCLUDES:

(A) THE KURNELL WHARF AND ASSOCIATED PIPELINES AS SHOWN ON FIGURE 4.1 PROVIDED IN THE ENVIRONMENTAL IMPACT STATEMENT TITLED "KURNELL PORTS AND BERTHING FACILITY - MAIN REPORT - VOLUME 1" DATED FEBRUARY 2013.

(B) THE SUBMARINE PIPELINES CONNECTING THE SUB BERTH TO THE KURNELL WHARF AS SHOWN ON THE ABOVE FIGURE; AND

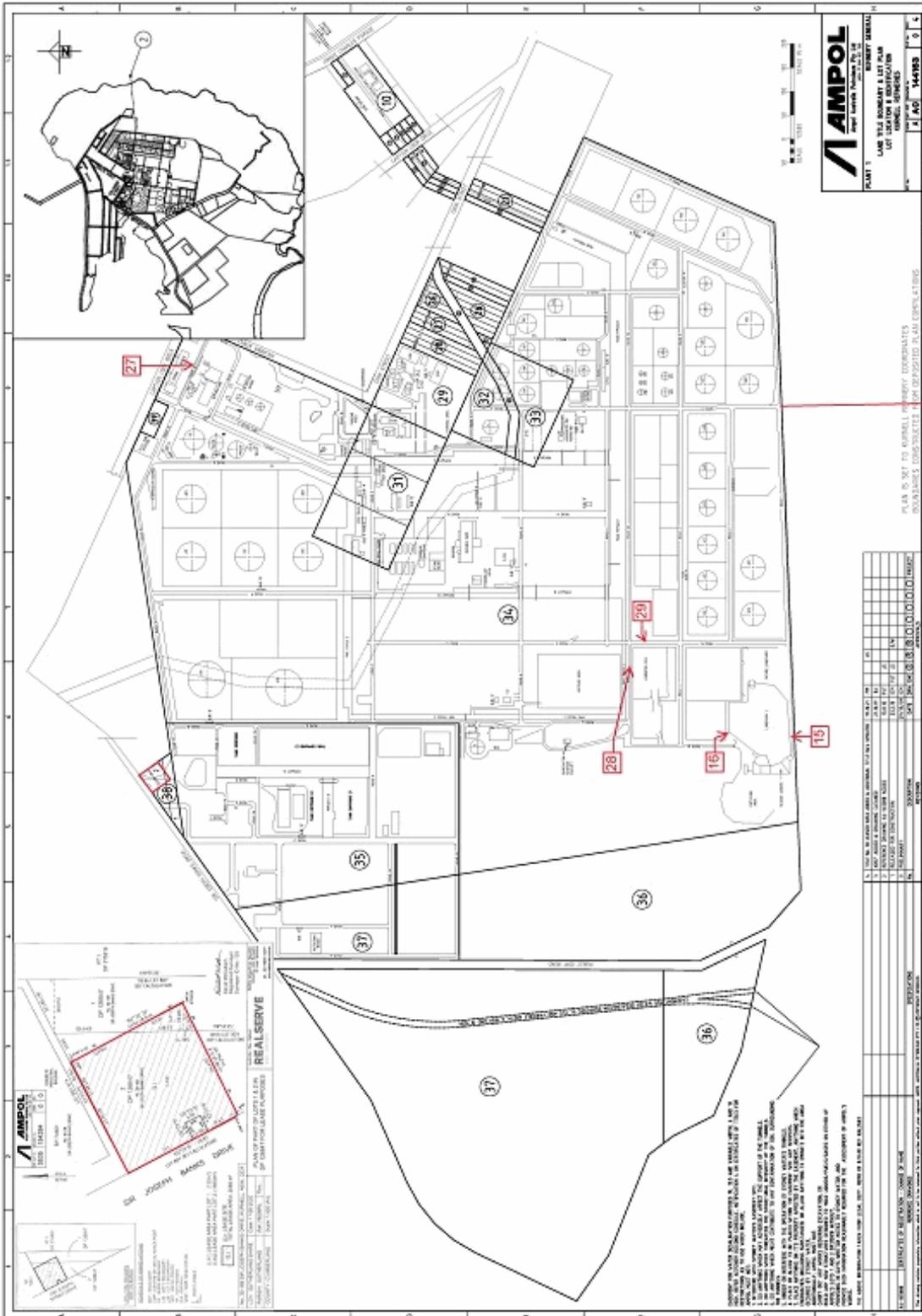
(C) ANY VESSEL BERTHED AT FIXED BERTHS NO. 1, 2 AND/OR THE SUB BERTH AS SHOWN ON THE ABOVE FIGURE FOR THE PURPOSE OF UNDERTAKING THE SCHEDULED ACTIVITY OF SHIPPING IN BULK.

A2.2 The premises location is shown on the map below.

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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.

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

Water and land

EPA Identification no.	Type of Monitoring Point	Type of Discharge Point	Location Description
2		Discharge to waters	Submerged ocean outfall at Yena Gap labelled "2" on Ampol drawing No. 144163 titled "Land Title Boundary & Lot Plan" provided on 19 March 2021. Note: Monitoring is at Point 27.
15	Groundwater quality monitoring		Bioremediation plot (landfarm) - permanent monitoring well PWM 8 labelled "15" on Ampol drawing No. 144163 titled "Land Title Boundary & Lot Plan" provided on 19 March 2021.
16	Groundwater quality monitoring		Bioremediation plot - (landfarm) permanent monitoring well (PMW) 33 labelled "16" on Ampol drawing No. 144163 titled "Land Title Boundary & Lot Plan" provided on 19 March 2021.
27	Effluent quality and volume monitoring		Sampling port in wastewater treatment plant labelled "27" on Ampol drawing No. 144163 titled "Land Title Boundary & Lot Plan" provided on 19 March 2021. Note: Discharge is at Point 2.

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28	Groundwater quality monitoring	Asbestos Contaminated Soil Containment Cell - Permanent monitoring well labelled "28 - Pipetrack 1" on Ampol drawing No. 144163 titled "Land Title Boundary & Lot Plan" provided on 19 March 2021.
29	Groundwater quality monitoring	Asbestos Contaminated Soil Containment Cell - Permanent monitoring well labelled "29 - Causway" on Ampol drawing No. 144163 titled "Land Title Boundary & Lot Plan" provided on 19 March 2021.

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.

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

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)	6000.00
Volatile organic compounds - Summer (Air)	
Volatile organic compounds (Air)	3000000.00

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

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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/s.

L3.4 Water and/or Land Concentration Limits

POINT 2

Pollutant	Units of Measure	50 percentile concentration limit	80 percentile concentration limit	90 percentile concentration limit	100 percentile concentration limit
Arsenic	milligrams per litre				0.07
BOD	milligrams per litre	20			30
BOD (Wet)	milligrams per litre				350
Lead	milligrams per litre				0.025
Nickel	milligrams per litre				0.03
Nitrogen (ammonia)	milligrams per litre				7.5
Oil and Grease	milligrams per litre			10	-
Oil and grease (Wet)	milligrams per litre				70
pH	pH			6.5-8.5	6.0-9.0
Phenols	milligrams per litre	0.3			2.7
Phenols (Wet)	milligrams per litre				5
Polycyclic aromatic hydrocarbons	milligrams per litre	0.03			0.5
Temperature	degrees Celsius				40
Total suspended solids	milligrams per litre	35			50

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TSS (Wet)	milligrams per litre	100
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Note: The pH limit specified for Point 2 is based on a 6 minute rolling average.

L3.5 For the purposes of Condition L3.4, for periods when the biotreater wastewater treatment plant is under bypass conditions as specified in Condition O6.3 of this licence, only the concentration limits for pH and Temperature and those which include the term “Wet” applies for discharges from Point 2.

L3.6 For the purposes of Condition L3.4, phenols at Point 2 should be read as total phenolics.

L4 Waste

L4.1 The licensee must not cause, permit or allow any waste to be received at the premises, except the wastes expressly referred to in the column titled “Waste” and meeting the definition, if any, in the column titled “Description” in the table below.

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

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

This condition does not limit any other conditions in this licence.

Code	Waste	Description	Activity	Other Limits
NA	General or Specific exempted waste			NA
NA	Waste			NA
J120	Waste oil/hydrocarbons mixtures/emulsions in water			Generated from licensee activities and/or transferred via pipeline from Caltex Bankstown Terminal

L4.2 The licensee may receive used ballast and tank washing water from ships associated with the premises. The received ballast and tank washing water may be appropriately treated at the premises by the wastewater treatment plant. For the purposes of this licence, used ballast and tank washings from ships associated with the premises are not considered to be wastes.

L4.3 The licensee may receive water and/or wastewater generated from the maintenance of product transfer pipelines associated with the premises. The received water and/or wastewater generated from the product transfer pipelines may be appropriately treated at the premises by the wastewater treatment plant. For the purpose of this licence water and/or wastewater received from product transfer pipelines is not considered to be a waste.

L4.4 The licensee may receive biotreater sludge from another biological wastewater treatment plant in quantities sufficient for re-seeding (inoculating) the biological wastewater treatment plant (less than 500 tonnes per

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annum). For the purposes of this licence biotreater sludge is not considered to be a waste.

- L4.5 The licensee may receive petroleum product mixtures known as “slops” from the Caltex Sydney Terminal at Banksmeadow (Licence 6950). The petroleum product mixtures must be received via pipeline only and either processed onsite or transferred to another refinery for reprocessing back into individual petroleum products. For the purposes of this licence, petroleum product mixtures are not considered to be a waste.

Note: “Slops” is a general term used to describe petroleum product/s which do not meet the required product specification. It can be a mixture of two different petroleum products generated within a transfer pipeline when the remainder of one petroleum product is pushed through the pipeline using a second different product.

L5 Noise limits

- L5.1 Noise from the premises must not exceed:
- An LAeq(15 minute) noise emission criterion of 60dB(A) (7:00am to 6:00pm) seven days a week; and
 - An LAeq(15 minute) noise emission criterion of 50dB(A) at all other times, and
 - An LMax noise emission criterion of 55dB(A) (10:00pm to 7:00am) except as expressly provided by this licence.
- L5.2 Noise from the premises is to be measured or computed at any point within one metre of any affected residence to determine compliance with condition L5.1. 5dB(A) must be added if the noise is tonal or impulsive in character
- L5.3 Where it can be demonstrated that direct measurement of noise from the premises is impractical, the EPA may accept alternative means of determining compliance. See Chapter 11 of the NSW Industrial Noise Policy January 2000 for general guidance on determining compliance.
- L5.4 For the purposes of determining the noise generated at the premises the modification factors in Section 4 of the NSW Industrial Noise Policy must be applied, as appropriate, to the noise levels measured by the noise monitoring equipment.
- L5.5 The noise emission limits identified in Condition L5.1 of this licence, apply under meteorological conditions of:
- Wind speed up to 3 m/s at 10 metres above ground level; and
 - Temperature inversion conditions up to 3 degrees Celsius/100 metres and wind speed up to 2 m/s at 10 metres above the ground.

L6 Potentially offensive odour

- L6.1 The licensee must not cause or permit the emission of offensive odour beyond the boundary of the premises.
- L6.2 No condition of this licence identifies a potentially offensive odour for the purposes of section 129 of the Protection of the Environment Operations Act 1997.

Note: Section 129 of the Protection of the Environment Operations Act 1997, provides that the licensee must not cause or permit the emission of any offensive odour from the premises but provides a defence if the emission is identified in the relevant environment protection licence as a potentially offensive odour and the odour was

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emitted in accordance with the conditions of a licence directed at minimising odour.

4 Operating Conditions

O1 Activities must be carried out in a competent manner

O1.1 Licensed activities must be carried out in a competent manner.

This includes:

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

O2 Maintenance of plant and equipment

O2.1 All plant and equipment installed at the premises or used in connection with the licensed activity:

- a) must be maintained in a proper and efficient condition; and
- b) must be operated in a proper and efficient manner.

O3 Dust

O3.1 The premises must be maintained in a condition which minimises or prevents the emission of dust from the premises.

O3.2 All operations and activities occurring at the premises must be carried out in a manner that will minimise the emission of dust from the premises.

O4 Emergency response

O4.1 The licensee must 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 at the premises is assessed and classified in accordance with the EPA Waste Classification Guidelines as in force from time to time.

O5.2 The licensee must ensure that waste identified for recycling is stored separately from other waste.

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O6 Other operating conditions

O6.1 Use of the biotreater wastewater treatment plant bypass

O6.2 All wastewater must be treated using the biotreater wastewater treatment plant or the oil/water separators and induced air flotation system prior to discharge at point 2 (Yena Gap).

O6.3 Wastewater that has passed through the oil/water separator can only bypass the biotreater wastewater treatment plant for treatment in the induced air flotation unit (IAF) when:

1. The influent flowrate exceeds the biotreater operational maximum treatment capacity and both the effluent diversion tank and the equalisation tank are more than 85% full, or
2. The transfer capacity of the diversion pumps and the equalisation tank feed pumps are insufficient to deal with the wastewater flow, or
3. The biotreater wastewater treatment plant is off line for essential maintenance, or
4. The pump capacity of the bypass pumps (number 15G-27) is being conducted to check maximum pump capacities and equipment availability, or
5. The influent flowrate to the biotreater falls below its operational minimum treatment capacity (150kL/h).

Note: The above bypass conditions may be varied in discussion with the licensee. In reviewing these conditions the EPA will take into consideration information including the frequency and duration of bypass events, monitoring data obtained under Condition M2 and the "Terminal Operations Wastewater Characterisation" Pollution Reduction Program.

O6.4 Whenever wastewater bypasses the biotreater wastewater treatment plant and is discharged at Point 2 (Yena Gap), the licensee must maintain the flowrate through the biotreater wastewater treatment plant at its operational maximum treatment capacity, unless the biotreater wastewater treatment plant is off-line for essential maintenance or the influent flow rate to the biotreater falls below 150kL/h.

Note: The biotreater bypass system (including the oil/water separators and induced air flotation system) is intended to act as a back-up system for the biotreater wastewater treatment plant.

The intention of Conditions O6.1 to O6.4 is to ensure that the biotreater wastewater treatment plant is treating wastewater within its operational maximum and minimum treatment capacities before wastewater is directed to the biotreater bypass system.

The "operational maximum treatment capacity" for the biotreater wastewater treatment plant is notionally 600kL/h. It may be less than 600kL/h depending on the number of "healthy" organisms in the biotreater wastewater treatment plant and the volume of wastewater stored in the equalisation tank.

O6.5 The licensee must record the time, date, duration and reason of each biotreater wastewater treatment plant bypass event.

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5 Monitoring and Recording Conditions

M1 Monitoring records

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

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

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

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

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

M2 Requirement to monitor concentration of pollutants discharged

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

M2.2 Water and/ or Land Monitoring Requirements

POINT 15,16

Pollutant	Units of measure	Frequency	Sampling Method
Benzene	milligrams per litre	Quarterly	Grab sample
Ethyl benzene	milligrams per litre	Quarterly	Grab sample
Lead	milligrams per litre	Quarterly	Grab sample
pH	pH	Quarterly	Grab sample
Standing Water Level	metres	Quarterly	Special Method 1
Toluene	milligrams per litre	Quarterly	Grab sample
Total Phenolics	milligrams per litre	Quarterly	Grab sample
TRH	milligrams per litre	Quarterly	Grab sample
Xylene	milligrams per litre	Quarterly	Grab sample

POINT 27

Pollutant	Units of measure	Frequency	Sampling Method
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2,4-dimethylphenol	milligrams per litre	Monthly	Grab sample
Arsenic	milligrams per litre	Monthly	Grab sample
Benzene	milligrams per litre	Monthly	Grab sample
BOD	milligrams per litre	Special Frequency 1	Grab sample
BOD (Wet)	milligrams per litre	Special Frequency 2	Grab sample
Ethyl benzene	milligrams per litre	Monthly	Grab sample
Lead	milligrams per litre	Monthly	Grab sample
Naphthalene	milligrams per litre	Monthly	Grab sample
Nickel	milligrams per litre	Monthly	Grab sample
Nitrogen (ammonia)	milligrams per litre	Special Frequency 1	Grab sample
Oil and Grease	milligrams per litre	Special Frequency 1	Grab sample
Oil and grease (Wet)	milligrams per litre	Special Frequency 2	Grab sample
pH	pH	Continuous	In line instrumentation
Phenanthrene	milligrams per litre	Monthly	Grab sample
Phenols	milligrams per litre	Special Frequency 1	Grab sample
Phenols (Wet)	milligrams per litre	Special Frequency 2	Grab sample
Polycyclic aromatic hydrocarbons	milligrams per litre	Monthly	Grab sample
Sulfide (un-ionised hydrogen sulfide)	milligrams per litre	Special Frequency 1	Grab sample
Temperature	degrees Celsius	Continuous	In line instrumentation
Toluene	milligrams per litre	Monthly	Grab sample
Total suspended solids	milligrams per litre	Special Frequency 1	Grab sample
TSS (Wet)	milligrams per litre	Special Frequency 2	Grab sample

POINT 28,29

Pollutant	Units of measure	Frequency	Sampling Method
Benzene	milligrams per litre	Quarterly	Grab sample
Ethyl benzene	milligrams per litre	Quarterly	Grab sample
Lead	milligrams per litre	Quarterly	Grab sample
Mercury	milligrams per litre	Quarterly	Grab sample
Naphthalene	milligrams per litre	Quarterly	Grab sample
pH	pH	Quarterly	Grab sample
Polycyclic aromatic hydrocarbons	milligrams per litre	Quarterly	Grab sample
Standing Water Level	metres	Quarterly	Special Method 1
Toluene	milligrams per litre	Quarterly	Grab sample
Total Phenolics	milligrams per litre	Quarterly	Grab sample
TRH	milligrams per litre	Quarterly	Grab sample
Xylene	milligrams per litre	Quarterly	Grab sample

Note: For the purposes of the table above for Point 27:

a) **Special Frequency 1** means once during any discharge.

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b) **Special Frequency 2** means daily only during any discharge under biotreater wastewater treatment plant bypass conditions as specified in condition O6.3.

c) any monitoring required for phenols is to be read as total phenolics

d) the monitoring conducted at Point 27 is conducted to determine compliance with limits specified in Condition L3.4 for discharges from Point 2.

Note: For the purposes of the table above for Points 15, 16, 28 and 29 above:

a) **Special Method 1** means recording of standing water level by measuring the depth to groundwater using an electronic dip meter with 1mm graduated tape; and

b) The Standing Water Level is to be measured in metres as the depth below the top of the monitoring well casing.

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 4 of the *Protection of the Environment Operations (General) Regulation 2022* 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.

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 must be produced to any authorised officer of the EPA who asks to see them.

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M5.4 The record of a complaint must be kept for at least 4 years after the complaint was made.

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 the date of the issue of this licence.

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 27

Frequency	Unit of Measure	Sampling Method
Continuous during discharge	kilolitres per day	In line instrumentation

6 Reporting Conditions

R1 Annual return documents

R1.1 The licensee must complete and supply to the EPA an Annual Return in the approved form comprising:

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

At the end of each reporting period, the EPA will provide to the licensee notification that the Annual Return is due.

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

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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.

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.

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

R1.4 Where this licence is surrendered by the licensee or revoked by the EPA or Minister, the licensee must prepare an Annual Return in respect of the period commencing on the first day of the reporting period and ending on:

- a) in relation to the surrender of a licence - the date when notice in writing of approval of the surrender is given; or
- b) in relation to the revocation of the licence - the date from which notice revoking the licence operates.

R1.5 The Annual Return for the reporting period must be supplied to the EPA via eConnect *EPA* or by registered post not later than 60 days after the end of each reporting period or in the case of a transferring licence not later than 60 days after the date the transfer was granted (the 'due date').

R1.6 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 Statements 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.

R2 Notification of environmental harm

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

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

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

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R3 Written report

- R3.1 Where an authorised officer of the EPA suspects on reasonable grounds that:
- where this licence applies to premises, an event has occurred at the premises; or
 - 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:
- the cause, time and duration of the event;
 - the type, volume and concentration of every pollutant discharged as a result of the event;
 - 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;
 - 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;
 - action taken by the licensee in relation to the event, including any follow-up contact with any complainants;
 - details of any measure taken or proposed to be taken to prevent or mitigate against a recurrence of such an event; and
 - 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

- G2.1 The location of EPA point number(s) 2, 15, 16, 27, 28 and 29 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.

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G3 Other general conditions

G3.1 Completed Programs

Program	Description	Completed Date
PRP 1: Mandatory Environmental Audit	To investigate environmental monitoring systems, identify deficiencies and recommend solutions to monitoring system deficiencies	20-October-2003
PRP 2: Noise Assessment Report	To assess the noise impact of the activities of the premises.	31-January-2004
PRP 3: CEM System Certification Testing	To ensure CEMs installed at Point 8 are accurate.	31-January-2004
PRP 4: Review of Environmental Impact of Cooling Water Discharge at Point 1	To ensure that any impacts from residual chlorine in cooling water discharge at Point 1 are minimised	19-December-2003
PRP 5: Water Quality to Stormwater	To improve the quality of stormwater discharging through the stormwater treatment system to achieve no visible oil and grease release in the waters adjacent to Gate 5 and within Quibray Bay.	30-March-2005
PRP 6: Septic Effluent Study	To reduce the environmental impacts of septic waste release from the premises to Yena Gap and Tabbigai Gap.	24-December-2004
PRP 7: Air Impact Assessment	Assess the impact of air pollutant emissions from the premises.	04-April-2005
PRP U1: Leak Detection and Repair Program (LDAR)	To minimise emissions of benzene and VOCs from process equipment within the premises. The reduction program will first focus on the significant areas of benzene emissions at the premises through a Focussed Leak Detection and Repair (FLDAR) Program and then progress to a Leak Detection and Repair (LDAR) Program to relevant process equipment across the whole of the premises.	28-January-2009
PRP U2: Interim Sulfur Dioxide (SO ₂) Mitigation	To develop and design sulfur dioxide (SO ₂) mitigation options to minimise 1-hour average ground level concentrations of SO ₂ under normal operating conditions using the results of year 2002 dispersion modelling completed to date.	27-June-2006
PRP U3: Sulfur Recovery Unit (SRU) - Reliability Improvement Report and Program	To improve the reliability of the Sulfur Recovery Unit (SRU) to minimise unplanned shutdowns of the SRU Back End, which result in Acid Gas Diversion to the SRU #1 Waste Gas Incinerator (45F-453), and thus reduce ground level concentrations of sulfur dioxide (SO ₂).	29-November-2009
PRP U4: Ambient Sulfur Dioxide (SO ₂) Monitoring Stations	To determine the actual concentrations of SO ₂ in the Kurnell community through the establishment of ambient SO ₂ monitoring stations.	29-September-2007

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PRP U5: Identification of Major Sources of Sulfur Dioxide (SO ₂)	To define and identify the major, non-major and negligible sources of SO ₂ at the premises.	31-May-2006
PRP U6: Sulfur Dioxide (SO ₂) Emissions Inventory	To quantify the major, non major and negligible sources of SO ₂ from the premises.	31-January-2008
PRP U7: Sulfur Dioxide (SO ₂) Impact Assessment and Risk Assessment	To undertake an air quality impact assessment to ensure that the premises can comply with the EPA's SO ₂ impact assessment criteria and to characterise SO ₂ emissions from all sources using risk analysis.	30-May-2008
PRP U8: Sulfur Dioxide (SO ₂) Mitigation	To identify the most cost-effective mitigation measures that will ensure compliance with the EPA's sulfur dioxide (SO ₂) health based impact assessment criteria under all operating and meteorological conditions and to develop site specific SO ₂ emission limits for Points 7 and 8 and all other all major sources at the premises.	28-November-2008
PRP U9: Common Stack (45F-10) H ₂ S Emissions Study	To investigate the emissions of hydrogen sulfide (H ₂ S) from the common stack (45F-10) under acid gas diversion for the current operation of the refinery and with the Clean Fuels Project implemented and compare the emissions with the requirements of the POEO (Clean Air) Regulation 2002.	06-October-2007
PRP U10: Validation of Boiler Performance and Oxides of Nitrogen (NO _x) Emission Limits Study	To establish individual oxides of nitrogen emission limits for discharge points 29,30,31 and 32 to replace the existing average emission concentration limit. The emission limits will reflect the operation and maintenance of the boilers in a proper and efficient manner, and ensure compliance with the EPA's health based impact assessment criteria for nitrogen dioxide.	30-May-2008
PRP U11: Noise Impact Assessment	To assess the impact of noise from the refinery including the operation of Clean Fuels Plant.	15-August-2006
PRP U12: Solid Particles and Hazardous Substances Impact Assessment	to undertake an air quality impact assessment to ensure the premises can comply with the EPA's environmental outcomes for solid particles and hazardous substances	01-June-2008
PRP U13: Contaminated Sites Assessment, Classification and Risk Ranking Requirement.	To develop upon existing contaminated site management practice and to develop and implement a comprehensive risk reduction program comprised of: <ul style="list-style-type: none"> - a preliminary soil and groundwater contamination risk reduction plan - a comprehensive contaminated site assessment and risk ranking - a stakeholder consultation plan - procedures for on-going management of contaminated site risk, and - an on-going review, update and implementation of a soil and groundwater monitoring plan 	04-June-2007

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PRP U14: Contaminated Sites Risk Reduction Program	To establish a program for reduction of risk to human health or any other aspect of the environment associated with contaminated soil and/or groundwater. Risk reduction measures may include preventing further contamination from sources identified in Condition U13 of this licence, by installing long term contamination controls, and minimising the human and environmental impact existing contamination by undertaking site remediation works.	10-December-2007
PRP U15: Odour Reduction Program	To continue to implement current odour mitigation measures and to undertake an odour assessment of the premises and develop an odour reduction program to further prevent the emission of any offensive odours from the premises.	02-May-2014
PRP U16: VOC Emissions from Petroleum Storages	To assess the effectiveness of sleeves on slotted guidepoles in reducing reported benzene and VOC emissions from storage tanks.	18-December-2020
PRP U18: Threatened Species Management Plan	To assess the risk of harm to threatened species, populations and EECs from actual or potential pollution from the premises and to identify management options to minimise any potential harm.	14-December-2015
PRP U23: Integrated Waste Management Strategy	To develop and implement an Integrated Waste Management Strategy to track and manage all waste materials generated and stored at the premises. This Pollution Reduction Program is closely linked to PRP U21 "Landfarm Management Plan".	14-December-2012
PRP U24: Stormwater Catchment & Management Program	To assess the existing stormwater and waste water collection systems and identify appropriate management strategies where necessary to prevent the discharge of contaminated waters from the premises at all times.	05-October-2012
PRP U25: Terminal Operations Wastewater Characterisation	To characterise the wastewater being discharged to Yena Gap during the transition from refinery operations to terminal operations and to help inform future requirements for wastewater treatment	23-March-2016
PRP U26: Monitoring Program for the Ampol Wharf Drain	PRP U26: Water and air monitoring of pollutant discharges from the Wharf drain.	19-April-2023

Completed Special Conditions

Special Condition	Description	Completed Date
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SC E2: Investigations to Reduce Soot Blowing Activities & Associated Air Emissions	To review the current soot blowing activities for the two FCCUs and investigate options to: a) reduce the need for soot blowing b) reduce particulate emissions associated with soot blowing, and c) comply with CAR Group 5 standards.	31 August 2011
SC E3: Feasibility Study for Particle Monitoring	To investigate the feasibility of replacing continuous opacity monitoring with continuous TSP and PM10 emission monitoring for both FCCUs and the four Powerplant Boilers and to identify a preferred option for implementation.	14 December 2011
SC E6: Vegetation Monitoring Program	To engage a suitably qualified ecological practitioner and developed a Vegetation Monitoring Program (VMP) to monitor any potential impacts on the Towra Point Nature Reserve as well as the adjacent Towra Point Aquatic Reserve over a 12 month period following the discharge of oily waters from the premises in June 2010.	31 August 2011
SC E7: Mandatory Environmental Audit	To undertake an independent environmental audit of the systems and procedures in place for the importation of "primary imported products" to ensure the activities can reliably and robustly comply with Section 129 of the POEO Act at all times. The audit is in response to the odour incident which occurred between April and June 2010.	Draft Report submitted: 28 September 2012 Final Report submitted: 20 November 2012 Implementation Report submitted: 26 April 2013 Progress Report submitted: 18 December 2013
SC E8: Bio-Pile Pilot Trial	To assess the feasibility, sustainability and benefits of a constructed Bio-Pile at the Kurnell Refinery for the treatment, remediation and reuse of hydrocarbon impacted soils sourced from offsite locations	Final Report submitted: 18 December 2015
SC E9: Data Gap Investigation Plan	To assess the data gaps related to the identification and management of contamination on, and related to, the refinery site	20 December 2018
SC E11: Polyfluoroalkyl substances (PFAS) Data Gap Investigation	To address data gaps identified in relation to the PFAS assessment undertaken at the site	31 March 2017
SC E12: Continuous Noise Monitor at the Kurnell Wharf	To trial the use of a noise monitor at the Kurnell wharf for a period of six months to continually monitor noise from shipping activities, assess compliance with the project approval noise limits and to encourage the licensee to proactively implement mitigation measures to address noise impacts on the Kurnell community.	31 July 2018

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SC E13: Per- and Poly-fluoroalkyl substances (PFAS) Investigations	To prepare a PFAS Action Plan to delineate the extent of PFAS contamination offsite, assess risks to offsite receptors and prevent further offsite migration of PFAS from the site.	30 October 2019
SC E14: PFAS Sampling and Analysis Quality Plan	To identify, respond and report on PFAS that has the potential to migrate off the site via groundwater and/or stormwater.	28 June 2019
SC E18: Waste Water Treatment Plant - Odour Reduction Program	To install activated carbon filters on exhaust pipes at the waste water treatment plant to reduce the likelihood of odours	22 September 2023

Deleted PRPs and Special Conditions

PRP or Special Condition	Description	Original Completion Date	Date Removed	Reason
PRP U17: Noise Impact Assessment and Mitigation	To continue to implement and evaluate noise mitigation measures installed at the premises and to undertake a Noise Impact Assessment to assess other significant noise sources to achieve an agreed level of noise reduction across the plant.	15 December 2014	13 November 2012	Removed from licence due to closure of the Refinery announced on 26 July 2012. Refinery to be converted into a fuel terminal by end of 2014. Noise issues will be assessed in the EIS for the terminal conversion project. Noise levels will reduce significantly in terminal mode.
PRP U19: Wastewater Survey - Yena Gap Discharge	To characterise the wastewater being discharged to Yena Gap and to assess the environmental risks.	15 December 2013	13 November 2012	Removed from licence due to closure of the Refinery announced on 26 July 2012. Refinery to be converted into a fuel terminal by end of 2014. Wastewater discharges will be assessed in the EIS for the terminal conversion project. A PRP addressing wastewater and its treatment may be negotiated and included as part of the Caltex terminal licence.

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PRP U22: Major Oil Spill Clean Up Contingency Plan	To develop a contingency plan for the management and interim storage of oily and/or various other waste streams in the event of a major spill incident occurring outside of the Kurnell Refinery.	30 March 2015	13 November 2012	Removed from licence due to closure of the Refinery announced on 26 July 2012. Refinery to be converted into a fuel terminal by end of 2014. A similar PRP may be negotiated and included as part of the Caltex terminal licence.
SC E4: Air Quality Impact Assessment	To demonstrate that current operations at the premises can continue to achieve acceptable environmental outcomes for solid particles (PM10 and TSP) and hazardous substances.	13 December 2013	13 November 2012	Removed from licence due to closure of the Refinery announced on 26 July 2012. Refinery to be converted into a fuel terminal by end of 2014. Air Quality to be assessed in the EIS for the terminal conversion project.
SC E5: Cost Benefit Analysis for Upgrading Plant and Equipment to Meet Group 5 Standards	To undertake a cost benefit analysis for upgrading the two Fluidised Catalytic Cracking Units and four power plant Boilers to meet Group 5 standards and emission standards consistent with best available techniques (BAT).	13 June 2014	13 November 2013	Removed from licence due to closure of the Refinery announced on 26 July 2012. Refinery to be converted into a fuel terminal by end of 2014. Air Quality to be assessed in the EIS for the terminal conversion project.
PRP U20: Soil/Groundwater Risk Reduction Program	To review and update the soil and groundwater contamination risk assessment and Groundwater Monitoring Plan developed in accordance with the Contaminated Sites Risk Reduction Program.	15 December 2015	15 January 2015	Removed from the licence due to the completion of the Preliminary Investigation Order (PIO) (Notice 20131001) issued under section 10 of the Contaminated Land Management Act 1997 on 17 June 2013. Special Condition SC E9 has been added to the licence as an outcome of the PIO.

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PRP U21: Landfarm Management Plan	To evaluate alternative options for the sustainable management of oily wastes/sludges that will facilitate Caltex to cease landfarming at the premises.	31 March 2013	15 December 2017	Removed from the licence due to PRP being reassessed as part of the EIS for the terminal conversion project. Assessment of the landfarm has been integrated with Special Condition SC E9: Data Gap Investigation Plan.
SC E10: Soil Regeneration Facility	Operation of the soil regeneration facility to receive and treat hydrocarbon contaminated soils from offsite sources and reuse the treated soil at the Kurnell Terminal for engineering purposes.	Ongoing	26 February 2018	Removed from the licence following a decision by the licensee to close the facility due to operational matters.

8 Pollution Studies and Reduction Programs

U1 PRP U27: Stormwater Pipe Investigations and Rectifications

U1.1 Background:

As an outcome of PRP U26: Monitoring Program for the Ampol Wharf Drain Investigation, the licensee has investigated and identified a damaged area/s in the stormwater pipe network receiving hydrocarbons from an unidentified source. That is, stormwater pipe infrastructure upstream of the triple interceptor on Road C, near Gate 5 of the premises. The hydrocarbons in the stormwater are leaving the premises at low concentrations and appear to contribute to the generation of hydrocarbon odours which move beyond the premises boundary under certain conditions.

The licensee has advised the EPA that re-lining sections of this pipe network is likely to prevent the inflow of hydrocarbons.

Objective:

The objective of this program is to:

- i. complete stormwater pipe re-lining works in an attempt to reduce hydrocarbon concentrations in stormwater discharges and monitor the success of these works;
- ii. assess feasible measures to remove the hydrocarbons from the stormwater discharges; and
- iii. if necessary, undertake an assessment of further options to reduce hydrocarbons in stormwater discharge and any odours generated as a result.

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U1.2 Stormwater Pipe Investigations and Rectifications Requirements:

Unless otherwise agreed in writing by the EPA, the licensee must commence or complete the following requirements by the specified dates.

The licensee must engage a suitably qualified and experienced person/s to undertake the following:

1. Pipeline Re-lining and Repair Works

Stage 1: By 30 November 2023, commence the repair of damaged stormwater pits in the stormwater drainage system between SW11 and SW14 to prevent contaminated water ingress.

Stage 2: By 31 March 2024, commence the re-lining of the mains for the stormwater drainage system between SW11 and SW14 or upon the delivery of the liner materials from the international supplier should delivery delays be incurred.

2. Hydrocarbon Monitoring Program

To assess the water quality data prior, during and after U1.2.1 Pipeline Re-Lining and Repair Works, hydrocarbon monitoring must be undertaken including, but not be limited to location SW15, which is positioned upstream of the right-of-way pit near Prince Charles Parade (SW12) and downstream of the triple interceptor at Gate 5 (SW11).

The hydrocarbon monitoring must be conducted:

- for at least two rounds on a weekly basis prior to the commencement of U1.2.1 Pipeline Re-lining and Repair Works;
- for at least two rounds after Stage 1 – repair of stormwater pits and prior to Stage 2 – re-lining of stormwater mains; and
- for at least three rounds after the completion of Stage 2 – re-lining of stormwater mains.

3. Stormwater Treatment System Assessment

Provide an evaluation of options that led to the decision of re-lining the critical section of the stormwater system. The assessment must demonstrate the decision-making process and include a high-level evaluation of a range of options (e.g., a flowceptor).

In the event the PRP U1.2.1 Pipe Re-lining and Repair Works do not reduce hydrocarbon concentrations in stormwater discharges, the EPA may also require assessment of other options to reduce hydrocarbons and odours in stormwater discharges such as:

- a) measures for diverting stormwater to avoid surfaces or sections of the stormwater system that may introduce hydrocarbon contamination into the stormwater;
- b) measures to control or contain hydrocarbons at the source (i.e., avoiding the generation of contaminated water or reducing the volume of contaminated runoff);
- c) measures for preventing odorous air from exiting out of the wharf drain (SW13); and
- d) captures of contaminated stormwater for onsite treatment or storage for offsite disposal or discharge to sewer (subject to a trade waste agreement).

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4. Reporting

The licensee must provide the EPA, in writing:

- a) By October 2023, commence PRP U1.2.2 Hydrocarbon Monitoring Program.
- b) By 30 December 2023, submit a report on the outcome of PRP U1.2.3 Stormwater Treatment System Assessment. The report must provide an evaluation of options that led to the decision of re-lining the critical section of the stormwater system.
- c) On the fifth business day of each month, commencing in November 2023, a report providing a progress update for the U1.2.1 Pipeline Re-lining and Repair Works. The report must include a description of any anticipated delays / risks to the Proposed Work Schedule outlined in Table 1 of WSP's letter to the EPA dated 29 September 2023.
- d) 6 weeks after the receiving of final laboratory results, a report on the findings from the PRP U1.2.2 Hydrocarbon Monitoring Program demonstrating the effectiveness of the pipeline re-lining and repair work under PRP U1.2.1.

5. Community Updates

The licensee must provide the Kurnell community with updates on the progress of the pipeline re-lining and repair works via Ampol's monthly Kurnell Community Update Newsletter.

U2 PRP U28: Stormwater management system upgrade

U2.1 During a period of heavy rainfall, on 7 April 2022 the waste water treatment plant at the premises was flooded causing hydrocarbon contamination to rise out of the separators and sumps and mix with the stormwater. The hydrocarbon contaminated stormwater then travelled off the premises and spilled to locations including but not limited to Captain Cook Drive and Solander Street, impacting the surrounding environment and Kurnell community.

Ampol has identified a series of upgrades to the stormwater management system at the premises, which it predicts will prevent a similar incident from reoccurring. These upgrades, which were presented to the EPA, are primarily designed to:

- Provide upstream retention of stormwater to mitigate the risk of overland flow and flooding of the waste water treatment plant; and
- Maintain segregation between stormwater and oily water systems at the waste water treatment plant.

This PRP requires Ampol to implement the proposed upgrades to the stormwater management system to prevent stormwater from the waste water treatment plant area transferring hydrocarbon contamination offsite.

U2.2 Unless otherwise agreed in writing by the EPA, the licensee must:

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1. By 31 December 2024 install a levee wall around the waste water treatment plant including the separator bays, retention basin and wet/oil pits, to prevent flooding and hydrocarbon loss of containment during periods of high rainfall. The levee wall must be designed such that it would prevent the loss of hydrocarbons in a 1 in 500 year flood event.

2. By 31 December 2024 construct and install:

- a) A new stormwater retention pit at the low point of pipe way A, with an automated pumping system to divert stormwater from the retention pit to bund 602 for storage during periods of high rainfall;
- b) A new stormwater retention pit at the low point of pipe way B, with an automated pumping system to divert stormwater from the retention pit to bund 623 for storage during periods of high rainfall;
- c) A new automated pumping station at the B1A basin to divert stormwater to bund 622 for storage during periods of high rainfall; and
- d) A new automated pumping station at the intermediate separators to divert stormwater from the intermediate separator to bund 602 for storage during periods of high rainfall.

Note: Bund 602, bund 623 and bund 622 must be designed such that any water stored in these areas will eventually drain to the waste water treatment plant for treatment prior to being discharged from the premises.

3. By 31 December 2024 install new automation controls on the existing pump at MH72 oily water sewer.

4. By 31 December 2024 provide to the EPA a procedure that outlines the new stormwater systems processes of training, maintenance and procedures during heavy rainfall.

U2.3 Unless otherwise agreed to in writing by the EPA, the licensee must submit a monthly report detailing progress on the Stormwater Management System Upgrade project required by condition U2.2. The report must include, but not necessarily be limited to, the following:

- 1. a brief narrative on the progress of the project;
- 2. photographs of construction work completed; and
- 3. a description of any anticipated or actual risks to the project timeline and the measures being implemented to mitigate those risks.

The report must be submitted electronically once a month. This reporting requirement will begin 1 month after the Development Application for the Stormwater Management System Upgrade Project is approved by the relevant consent authority.

U2.4 The licensee must notify the EPA in writing of the completion of each condition under U2.2.

U2.5 Unless otherwise advised in writing by the EPA, by 30 June 2025 the licensee must adequately test all new stormwater systems upgrades under condition U2.2 to confirm they are functioning correctly and provide a report to the EPA that summarises the outcomes of the testing.

9 Special Conditions

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E1 SC E15: PFAS Sampling and Analysis Quality Plan

E1.1 The licensee must implement the Ampol Kurnell Terminal Per- and poly-fluoroalkyl substances (PFAS) Sampling and Analysis Quality Plan (SAQP)" dated December 2022 reviewed and endorsed by the appointed Contaminated Site Auditor accredited by the EPA under the Contaminated Land Management Act 1997.

The Plan provides a program of works that the licensee must undertake to identify, respond and report on PFAS that has the potential to migrate off the premises via groundwater and/or stormwater. The plan provides a program of regular monitoring and assessment of PFAS for the broader Kurnell Terminal site.

Reporting

Unless otherwise agreed in writing by the EPA, the licensee must prepare and submit to the EPA a written report by **30 April 2024** detailing:

- a) the outcomes of the PFAS SAQP including an assessment against the objectives identified in the SAQP
- b) an update on the sampling works to evaluate the performance of onsite PFAS controls to prevent further offsite migration via surface waters and/or groundwater. This includes the permeable reactive barrier (PRB) installed in the stormwater drain that runs south from the former fire training area
- c) an update on the review of potential disposal options for PFAS fire-fighting foams remaining on the site, and
- d) Update of whether the target additional investigation outlined in Table 9.3 were pursued.

The objectives of the SAQP include, but may not be limited to:

- i) understand the potential effects of likely increased rainfall (La Nina conditions) on PFAS concentrations in surface water and groundwater at the site (Section 1.2)
- ii) assess any ongoing risk to receptor using the updated National Environmental Management Plan (NEPM) Version 2 (Section 1.2)
- iii) assess whether identified data gaps have been addressed and closed out (Sections 1.2 & 9.1)
- iv) assess PFAS management/remediation options and scope in the future (section 1.2)
- v) refinement of the initial Conceptual Site Model (Section 5)
- vi) Provide further understanding of the relationship between potential sources and receptors around the site (Section 5.3)
- vii) evaluate the performance of the PRB (section 5.4)
- viii) refinement of the site's risk profile and revising the SAQP (Section 9.2.2).

Note: The SAQP should be revised based on changes in the contaminant profile/distribution and/or updates to regulatory guidance. Unless otherwise agreed in writing by the EPA, the licensee must submit a revised copy of the plan to the EPA within 7 days of the plan being updated.

Note: The SAQP must be accompanied by evidence of endorsement of the SAQP by a Contaminated Sites Auditor accredited under the Contaminated Land Management Act 1997.

Note: Should the licensee identified a change in the assessed exposure pathway or an increase in the level of risk as a result of the offsite monitoring program, the licensee must notify the EPA in writing within 7 days and identify any contingency measures that will be implemented.

E2 SC E16: Remediation Action Strategy

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- E2.1 The licensee must implement the “Caltex Kurnell Remediation Action Strategy” (RAS) dated December 2019 or as otherwise revised (including subsequent addendum reports referred to in the Strategy). The RAS provides details of remediation works which will be undertaken by the licensee to address legacy contamination at the site.

Reporting

Unless otherwise agreed in writing by the EPA, the licensee must prepare and submit to the EPA an annual written report by the end of November each year providing updates on the progress of the remediation works detailed in the RAS, including any changes to timeframes identified in the RAS.

Completion Date: 30 November each year

Note: The licence may be varied in discussion with the licensee should any additional data gaps be identified through the implementation of the RAS.

E3 SC E17: Tank Turnaround and Inspection Program

- E3.1 Pollution Reduction Program U16.2: Implementation of the Tank Sleeve Program required the licensee to upgrade a number of gasoline storage tanks with emissions reduction devices to reduce emissions of benzene and Volatile Organic Compounds (VOC) emissions.

During the program, the licensee expanded the scope of the program to include number of additional tanks that would be upgraded at the premises as part of the licensee's maintenance/turnaround and inspection program (T&I). These tanks included 204, 318, 408, 409, and 513. The licensee has committed to continue upgrading these tanks in accordance with the T&I schedule.

The licensee must prepare and submit to the EPA a written report providing an update on the progress of the following:

- a) identification of the tanks that have been upgraded
- b) identification of the remaining tanks requiring upgrade
- c) an update of the tank upgrade program schedule

Completion Date: 30 October each year

Note: The licensee has advised that the inspection frequencies and maintenance programs at the premises are reviewed from time to time and optimised based on a risk-based inspection program. The program schedule may be subject to change as a result of the review process. The program schedule will be completed upon the upgrade of the five identified tanks.

E4 SC E19: Waste Water Treatment Plant – Odour Abatement Program

E4.1 Background

Special Condition SC E18: Waste Water Treatment Plant – Odour Reduction Program required the installation of activated carbon filters on top of all exhaust pipes at the separators in the waste water treatment plant (WWTP). Following completion of SC E18, the licensee has identified and committed to what it believes to be a more effective system for mitigating hydrocarbon odours. This system involves actively drawing air from the separator pits to prevent natural venting, and then passing the air through activated carbon filters

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before being released. This system will replace the existing filters on the exhaust pipes.

E4.2 Requirements

By 30 September 2024 the licensee must install an odour abatement system at the WWTP. The system must use negative pressure to draw vapour from the vapour space in the oily water separators for treatment before being released to the atmosphere. The odour abatement system must be installed in a manner to reduce the likelihood of odour generation from the oily water separator pits.

E4.3 During the construction and installation of the odour abatement system under condition E4.2, the licensee must undertake a daily odour survey around the perimeter of the WWTP and the adjacent premises boundary. Where a point source of odour is identified, the licensee must undertake appropriate measures to reduce the potential for the source to cause offensive odours beyond the site boundary (for example application of deodoriser).

E4.4 By 16 October 2024 the licensee must provide a report to the EPA that includes:

- confirmation the requirements of E4.2 have been completed, including photographic evidence; and
- a filter inspection and maintenance plan that outlines a schedule to ensure carbon filters and the odour abatement system are maintained and operated in an effective manner.

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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
Wellhead	Has the same meaning as in Schedule 1 to the Protection of the Environment Operations (General) Regulation 2021.

Mr Niall Johnston

Environment Protection Authority

(By Delegation)

Date of this edition: 30-November-2000

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End Notes

- 1 Licence varied by notice 1003972, issued on 21-Feb-2001, which came into effect on 23-Feb-2001.
- 2 Licence varied by notice 1006939, issued on 04-May-2001, which came into effect on 29-May-2001.
- 3 Licence varied by change of LGA to Sutherland, issued on 02-Aug-2001, which came into effect on 02-Aug-2001.
- 4 Licence varied by notice 1012295, issued on 16-May-2002, which came into effect on 10-Jun-2002.
- 5 Licence varied by Admin corrections to archived record, issued on 02-Dec-2002, which came into effect on 02-Dec-2002.
- 6 Licence varied by notice 1023716, issued on 24-Mar-2003, which came into effect on 18-Apr-2003.
- 7 Licence varied by notice 1026788, issued on 24-Nov-2003, which came into effect on 19-Dec-2003.
- 8 Licence varied by notice 1050241, issued on 22-Sep-2005, which came into effect on 22-Sep-2005.
- 9 Licence varied by notice 1054156, issued on 30-Mar-2006, which came into effect on 24-Apr-2006.
- 10 Licence transferred through application 143874, approved on 01-May-2006, which came into effect on 02-May-2005.
- 11 Licence varied by notice 1060525, issued on 25-May-2006, which came into effect on 25-May-2006.
- 12 Licence varied by updating references to the Clean Air Reg, issued on 25-Jul-2006, which came into effect on 25-Jul-2006.
- 13 Licence varied by notice 1064972, issued on 07-Sep-2006, which came into effect on 07-Sep-2006.
- 14 Licence varied by notice 1071603, issued on 02-Nov-2007, which came into effect on 02-Nov-2007.
- 15 Licence varied by change to legislation, issued on 07-Nov-2007, which came into effect on 07-Nov-2007.
- 16 Condition A1.3 Not applicable varied by notice issued on <issue date> which came into effect on <effective date>
- 17 Licence varied by notice 1103985, issued on 01-Dec-2009, which came into effect on 01-Dec-2009.
- 18 Licence varied by notice 1112284, issued on 01-Sep-2010, which came into effect on 01-Sep-2010.

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19	Licence varied by notice 1120888, issued on 10-Jan-2011, which came into effect on 10-Jan-2011.
20	Licence varied by notice 1500503 issued on 13-Sep-2011
21	Licence varied by notice 1501631 issued on 29-Sep-2011
22	Licence varied by notice 1505019 issued on 27-Apr-2012
23	Licence varied by notice 1506097 issued on 02-Jul-2012
24	Licence varied by notice 1509964 issued on 15-Nov-2012
25	Licence varied by notice 1514299 issued on 14-Jun-2013
26	Licence varied by notice 1516944 issued on 12-Sep-2013
27	Licence varied by notice 1519229 issued on 17-Jan-2014
28	Licence varied by notice 1521556 issued on 21-May-2014
29	Licence varied by notice 1523965 issued on 25-Aug-2014
30	Licence varied by notice 1524900 issued on 16-Jan-2015
31	Licence varied by notice 1530185 issued on 01-May-2015
32	Licence varied by notice 1538422 issued on 10-Mar-2016
33	Licence varied by notice 1538820 issued on 31-Mar-2016
34	Licence varied by notice 1544521 issued on 26-Sep-2016
35	Licence varied by notice 1547864 issued on 10-Feb-2017
36	Licence varied by notice 1553331 issued on 18-Jul-2017
37	Licence varied by notice 1559992 issued on 20-Dec-2017
38	Licence varied by notice 1560268 issued on 22-Dec-2017
39	Licence varied by notice 1564430 issued on 02-May-2018
40	Licence varied by notice 1565709 issued on 26-Jun-2018
41	Licence varied by notice 1571458 issued on 07-Mar-2019
42	Licence varied by notice 1577724 issued on 12-Apr-2019
43	Licence varied by notice 1606490 issued on 21-Apr-2021
44	Licence varied by notice 1619134 issued on 27-May-2022
45	Licence varied by notice 1623599 issued on 13-Mar-2023
46	Licence varied by notice 1628032 issued on 03-Apr-2023
47	Licence varied by notice 1633684 issued on 13-Oct-2023



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48	Licence varied by notice	1634518 issued on 09-Nov-2023
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49	Licence varied by notice	1637484 issued on 22-Mar-2024
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