

# Licence Variation

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Licence - 12789

NARRABRI COAL OPERATIONS PTY LTD  
LOCKED BAG 1002  
NARRABRI NSW 2390

Attention: Shane Rily

Notice Number 1629995  
File Number EF13/4250  
Date 26-Jul-2023

## NOTICE OF VARIATION OF LICENCE NO. 12789

### BACKGROUND

- A. NARRABRI COAL OPERATIONS PTY LTD (“the licensee”) is the holder of Environment Protection Licence No. 12789 (“the licence”) issued under the *Protection of the Environment Operations Act 1997* (“the Act”). The licence authorises the carrying out of activities at 10 Kurrajong Creek Road, BAAN BAA, NSW, 2390 (“the premises”).
- B. On 19-Jun-2023 the Environment Protection Authority (EPA) received an application for the variation of the licence to include new monitoring locations associated with a new Brine Dam.
- C. In 2010 the Licence holder obtained Development Consent for Stage two of the Narrabri Coal Project. The project included the construction of a new brine dam and associated infrastructure.
- D. The EPA has taken into consideration practical means that could be taken to prevent, control, abate or mitigate pollution and to protect the environment from harm as a result of that pollution in the operation of the newly constructed brine dam and associated infrastructure.

### VARIATION OF LICENCE NO. 12789

1. By this notice the EPA varies licence No. 12789. The attached licence document contains all variations that are made to the licence by this notice.
2. The following variations have been made to the licence:
  - P1.2 - The addition of groundwater monitoring bores 37, 38,39, and 40.
  - P1.2 - The addition of surface water monitoring locations 41 and 42.
  - M2.8 - the inclusion of special frequency 4 for sampling during any possible loss of containment.
  - U2.1 - Additional of Pollution study to take background groundwater samples prior to commencement of use of dam.

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- U3.1 - Regular groundwater sampling as part of the QA/QC process for the commissioning of the dam.

A handwritten signature in black ink, appearing to read 'Lindsay Fulloon', is positioned above a horizontal dotted line.

**Lindsay Fulloon**

**Manager**

**Environment Protection Authority**

(by Delegation)

## **INFORMATION ABOUT THIS NOTICE**

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

## **Appeals against this decision**

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

## **When this notice begins to operate**

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

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## Licence Details

Number:	12789
Anniversary Date:	20-February

## Licensee

NARRABRI COAL OPERATIONS PTY LTD

LOCKED BAG 1002

NARRABRI NSW 2390

## Premises

NARRABRI COAL OPERATIONS

10 KURRAJONG CREEK ROAD

BAAN BAA NSW 2390

## Scheduled Activity

Coal works

Mining for coal

## Fee Based Activity

## Scale

Coal works	> 5000000 T annual handing capacity
Mining for coal	> 5000000 T annual production capacity

## Contact Us

NSW EPA

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10 Darcy Street

PARRAMATTA NSW 2150

Phone: 131 555

Email: [info@epa.nsw.gov.au](mailto:info@epa.nsw.gov.au)

Locked Bag 5022

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:

<b>NARRABRI COAL OPERATIONS PTY LTD</b>
<b>LOCKED BAG 1002</b>
<b>NARRABRI NSW 2390</b>

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
Coal works	Coal works	> 5000000 T annual handing capacity
Mining for coal	Mining for coal	> 5000000 T annual production capacity

### A2 Premises or plant to which this licence applies

A2.1 The licence applies to the following premises:

Premises Details
NARRABRI COAL OPERATIONS
10 KURRAJONG CREEK ROAD
BAAN BAA
NSW 2390
THE LAND APPROVED UNDER PROJECT APPROVAL 08_0144- INDICATED IN APPENDIX 1- SCHEDULE OF PROJECT LAND OF PROJECT APPROVAL 08_0144, DATED 26 JULY 2010 (DOC13/91155).

### A3 Information supplied to the EPA

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

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

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



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## 2 Discharges to Air and Water and Applications to Land

### P1 Location of monitoring/discharge points and areas

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

<i>Air</i>			
EPA identification no.	Type of Monitoring Point	Type of Discharge Point	Location Description
3	Ambient Air Quality Monitoring		Monitoring point located at "Bow Hills" and labelled ND3 as shown on map titled "EPL 12789 Monitoring Locations" dated 21/02/2017- EPA DOC17/131971.
23		Gas Drainage Network	Pre- drainage and Goaf gas drainage network associated with the underground mining operations.

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.

P1.3 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.

<i>Water and land</i>			
EPA Identification no.	Type of Monitoring Point	Type of Discharge Point	Location Description
11	Wet weather discharge Discharge water quality monitoring	Wet weather discharge Discharge water quality monitoring	Discharge point on northern side of mine boundary labelled as "SD4" on Figure titled "EPL 12789 Monitoring Locations" dated 21/02/2017, EPA DOC17/131971.
13	Wet weather discharge Discharge water quality monitoring	Wet weather discharge Discharge water quality monitoring	Discharge point on south eastern side of mine boundary labelled as "SD2" on Figure titled "EPL 12789 Monitoring Locations" dated 21/02/2017, EPA DOC17/131971.
14	Ambient Water Quality Monitoring		Upstream of mine discharge point on Kurralong Creek Tributary 1 labelled as "KC1US" on Figure titled "EPL 12789 Monitoring Locations" dated 21/02/2017, EPA DOC17/131971."

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15	Ambient Water Quality Monitoring		Downstream of mine discharge point on Kurrajong Creek Tributary 1 labelled as "KC1DS" on Figure titled "EPL 12789 Monitoring Locations" dated 21/02/2017, EPA DOC17/131971."
16	Ambient Water Quality Monitoring		Upstream of mine discharge point on Kurrajong Creek Tributary 2 labelled as "KC2US" on Figure titled "EPL 12789 Monitoring Locations" dated 21/02/2017, EPA DOC17/131971.
17	Ambient Water Quality Monitoring		Downstream of mine discharge point on Kurrajong Creek Tributary 2 labelled as "KC2DS" on Figure titled "EPL 12789 Monitoring Locations" dated 21/02/2017, EPA DOC17/131971.
18	Wet weather discharge Discharge water quality monitoring	Wet weather discharge Discharge water quality monitoring	Discharge point on western side of mine boundary labelled as "SD7" on figure titled "EPL 12789 Monitoring Locations" dated 21/02/2017, EPA DOC17/131971.
19	Ambient Water Quality Monitoring		Upstream location of Kurrajong Creek labelled as "KCUS" on figure titled "EPL 12789 Monitoring Locations" dated 21/02/2017, EPA DOC17/131971.
20	Ambient Water Quality Monitoring		Upstream location of Kurrajong Creek labelled as "KCDS" on figure titled "EPL 12789 Monitoring Locations" dated 21/02/2017, EPA DOC17/131971.
21	Ambient Water Quality Monitoring		Northern portion of mining area in Pine Creek labelled as "PCa" on figure titled "EPL 12789 Monitoring Locations" dated 21/02/2017, EPA DOC17/131971.
22	Ambient Water Quality Monitoring		Monitoring point in Pine Creek Tributary 1 labelled as "PC1" on figure titled "EPL 12789 Monitoring Locations" dated 21/02/2017, EPA DOC17/131971.
24	Water Quality Monitoring	Water Quality Monitoring	Discharge point at Namoi River Labelled as NR1 on Map titled "EPL 12789 Monitoring Locations" dated 21/02/2017, EPA DOC17/131971.
25	Ambient Water Quality Monitoring	Ambient Water Quality Monitoring	Discharge point at Namoi River Labelled as NRUS on Map titled "EPL 12789 Monitoring Locations" dated 21/02/2017, EPA DOC17/131971.

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26	Ambient Water Quality Monitoring	Ambient Water Quality Monitoring	Discharge point at Namoi River Labelled as NRDS on Map titled "EPL 12789 Monitoring Locations" dated 21/02/2017, EPA DOC17/131971.
27	Wet Weather Discharge Discharge water quality monitoring	Wet Weather Discharge Discharge water quality monitoring	Discharge point at Ventilation Shaft Labelled as SD8 on Map titled "EPL 12789 Monitoring Locations" dated 21/02/2017, EPA DOC17/131971.
28	Ground Water Monitoring Bore		As shown in Report "EPL 12789 Technical advise for Hydrology" existing Groundwater monitoring network mark P28(DOC20/555691).
29	Ground water monitoring Bore		As shown in Report "EPL 12789 Technical advise for Hydrology" existing Groundwater monitoring network mark P29(DOC20/555691).
30	Groundwater Monitoring Bore		As shown in Report "EPL 12789 Technical advise for Hydrology" existing Groundwater monitoring network mark P30 (DOC20/555691).
31	Groundwater Monitoring Bore		As shown in Report "EPL 12789 Technical advise for Hydrology" existing Groundwater monitoring network mark P31 (DOC20/555691).
32	Groundwater Monitoring Bore		As shown in Report "EPL 12789 Technical advise for Hydrology" existing Groundwater monitoring network mark P32 (DOC20/555691).
33	Groundwater Monitoring Bore		As shown in Report "EPL 12789 Technical advise for Hydrology" existing Groundwater monitoring network mark P33 (DOC20/555691).
34	Groundwater Monitoring Bore		As shown in Report "EPL 12789 Technical advise for Hydrology" existing Groundwater monitoring network mark P34(DOC20/555691).
35	Ground water monitoring bore		Approximately 200m SW of bore at location 30 known as P58
36	Groundwater Monitoring		As shown in Map EPL12789 Variation Proposed Monitoring marked as point P83 (DOC23/539638)
37	Ground Water Monitoring		As shown in Map EPL12789 Variation Proposed Monitoring marked as point P84 (DOC23/539638)
38	Groundwater Monitoring		As shown in Map EPL12789 Variation Proposed Monitoring marked as point P85 (DOC23/539638)

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39	Ground Water Monitoring	As shown in Map EPL12789 Variation Proposed Monitoring marked as point P88 (DOC23/539638)
40	Ground Water Monitoring	As shown in Map EPL12789 Variation Proposed Monitoring marked as point P89 (DOC23/539638)
41	Surface Water Monitoring	As shown in Map EPL12789 Variation Proposed Monitoring marked as point TLUS (DOC23/539638)
42	Surface Water Monitoring	As shown in Map EPL12789 Variation Proposed Monitoring marked as point TLDS (DOC23/539638)

- P1.4 Point W1 in the table, is identified in this license for the purpose of monitoring of weather parameters at that point. Point W2 in the table, is identified in this license for the purpose of monitoring Inversion conditions.

EPA identification number	Type of Monitoring Point	Description of Location
W1	Weather analysis	Weather station identified as "W1" on map titled "EPL 12789 Monitoring Locations" dated 21/02/2017 - EPA DOC17/131971.
W2	Measurement of Inversion conditions	Inversion tower identified as "W2" on map titled "EPL 12789 Monitoring Locations" dated 21/02/2017 - EPA DOC17/131971.

## 3 Limit Conditions

### L1 Pollution of waters

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

### L2 Concentration limits

- L2.1 For each monitoring/discharge point or utilisation area specified in the table/s below (by a point number), the concentration of a pollutant discharged at that point, or applied to that area, must not exceed the concentration limits specified for that pollutant in the table.
- L2.2 Where a pH quality limit is specified in the table, the specified percentage of samples must be within the specified ranges.
- L2.3 To avoid any doubt, this condition does not authorise the pollution of waters by any pollutant other than those

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specified in the tables.

## L2.4 Water and/or Land Concentration Limits

### POINT 11,13,18,27

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

### POINT 11,13,18,24,27

Pollutant	Units of Measure	50 percentile concentration limit	90 percentile concentration limit	3DGM concentration limit	100 percentile concentration limit
pH	pH	-	-	-	6.5-8.5

### POINT 11,13,18,27

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

### POINT 24

Pollutant	Units of Measure	50 percentile concentration limit	90 percentile concentration limit	3DGM concentration limit	100 percentile concentration limit
Total dissolved solids	milligrams per litre	250			350

L2.5 The Total Suspended Solids concentration limits specified for Points 11, 13, 18 and 27 may be exceeded for water discharged provided that:

- the discharge occurs solely as a result of rainfall measured at the premises that exceeds 38.4 millimetres over any consecutive 5 day period immediately prior to the discharge occurring; and
- all practical measures have been implemented to dewater all sediment dams within 5 days of rainfall such that they have sufficient capacity to store run off from a 38.4 millimetre, 5 day rainfall event.

Note: 38.4 mm equates to the 5 day 90%ile rainfall depth for Gunnedah sourced from Table 6.3a Managing Urban Stormwater: Soils and Construction Volume 1: 4th edition, March 2004.

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## L3 Waste

- L3.1 The licensee is permitted to receive hollow logs and tree stumps generated from Kamilaroi Highway upgrade works carried out in December 2020.
- L3.2 Green waste generated from the Kamilaroi Highway upgrade works is to be stored on the premises in a clearly defined area and is to be used for ecological rehabilitation purposes and velocity reducing features within the landscape only.
- L3.3 Green waste generated from the Kamilaroi Highway upgrade works is to be placed in a manner that will not pollute land or waters.

## L4 Noise limits

- L4.1 Noise generated at the premises must not exceed the noise limits in the table below.

Locality and Location	Day- LAeq (15 minute)	Evening- LAeq (15 minute)	Night- LAeq (15 minute)	Night- LA1 (1 minute)
All privately-owned residences	35	35	35	45

- L4.2 The noise limits identified in the above table do not apply at privately owned residences that are:
- identified as residences subject to acquisition or noise mitigation on request within the Project Approval; or
  - subject to a private agreement, relating to the noise levels, between the licensee and the land owner.

- L4.3 For the purpose of the table above:

- Day is defined as the period from 7am to 6pm Monday to Saturday and 8am to 6pm Sundays and Public Holidays;
- Evening is defined as the period from 6pm to 10pm;
- Night is defined as the period from 10pm to 7am Monday to Saturday and 10pm to 8am Sundays and Public Holidays.

### L4.4 Determining Compliance

To determine compliance:

- with the Leq(15 minute) noise limits in the Noise Limits table, the noise measurement equipment must be located:
  - approximately on the property boundary, where any dwelling is situated 30 metres or less from the property boundary closest to the premises; or
  - within 30 metres of a dwelling façade, but not closer than 3m, where any dwelling on the property is situated more than 30 metres from the property boundary closest to the premises; or, where applicable
  - within approximately 50 metres of the boundary of a National Park or a Nature Reserve.

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- b) with the LA1(1 minute) noise limits in the Noise Limits table, the noise measurement equipment must be located within 1 metre of a dwelling façade.
- c) with the noise limits in the Noise Limits table, the noise measurement equipment must be located:
  - i) at the most affected point at a location where there is no dwelling at the location; or
  - ii) at the most affected point within an area at a location prescribed by part (a) or part (b) of this condition.

- L4.5 The noise limits set out in the Noise Limits table apply under all meteorological conditions except for the following:
- a) Wind speeds greater than 3 metres/second at 10 metres above ground level; or
  - b) Stability category F temperature inversion conditions and wind speeds greater than 2 metres/second at 10 metres above ground level; or
  - c) Stability category G temperature inversion conditions.

For the purposes of this condition:

- i) Data recorded by the meteorological station identified as EPA Identification Point(s) W1 must be used to determine meteorological conditions; and
- ii) Temperature inversion conditions (stability category) are to be determined by direct measurement over a minimum 50m height interval as referred to in Part E2 of Appendix E of the *"New South Wales Industrial Noise Policy"* dated January 2000 ISBN 0 7313 2715 2.

- L4.6 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 Blasting

- L5.1 The overpressure level from blasting operations at the premises must not exceed 115dB (Lin Peak) for more than five per cent of the total number of blasts over each reporting period. Error margins associated with any monitoring equipment used to measure this are not to be taken into account in determining whether or not the limit has been exceeded.
- L5.2 The overpressure level from blasting operations at the premises must not exceed 120dB (Lin Peak) at any time. Error margins associated with any monitoring equipment used to measure this are not to be taken into account in determining whether or not the limit has been exceeded.
- L5.3 The airblast overpressure level from blasting operations listed in Conditions L4.1 and L4.2 must not be exceeded at any point within 30 metres of any non-project related residential building or other noise sensitive location.
- L5.4 Ground vibration peak particle velocity from the blasting operations at the premises must not exceed 5mm/sec for more than five per cent of the total number of blasts over each reporting period. Error margins associated with any monitoring equipment used to measure this are not to be taken into account in determining whether or not the limit has been exceeded.
- L5.5 Ground vibration peak particle velocity from the blasting operations at the premises must not exceed 10mm/sec at any time. Error margins associated with any monitoring equipment used to measure this are not to be taken into account in determining whether or not the limit has been exceeded.

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- L5.6 The ground vibration peak particle velocity limits listed in Conditions L4.5 and L4.4 must not be exceeded at any point within 3.5 metres of any non-project related residential building or other noise sensitive location.
- L5.7 Blasting operations at the premises may only take place between 10:00am-4:00pm Monday to Friday. (Where compelling safety reasons exist, the Authority may permit a blast to occur outside the abovementioned hours. Prior written (or facsimile) notification of any such blast must be made to the Authority).
- L5.8 Blasting at the premises is limited to:
- a) A maximum of two (2) blasts per day;
  - b) Five (5) blasts a week, averaged over a twelve month period;
- on each day on which blasting is permitted.

## 4 Operating Conditions

### O1 Activities must be carried out in a competent manner

- O1.1 Licensed activities must be carried out in a competent manner.  
This includes:
- a) the processing, handling, movement and storage of materials and substances used to carry out the activity; and
  - b) the treatment, storage, processing, reprocessing, transport and disposal of waste generated by the activity.

### O2 Maintenance of plant and equipment

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

### O3 Dust

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

### O4 Other operating conditions

#### Pollution Incident Response Management Plan

- O4.1 The licensee must maintain, and implement as necessary, a current Pollution Incident Response Management Plan (PIRMP) for the premises. The PIRMP must document systems and procedures to deal with all types of incidents (e.g. spills, explosions, 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.



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O4.2 The licensee must keep the PIRMP on the premises at all times.

## 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 Air Monitoring Requirements

#### POINT 3

Pollutant	Units of measure	Frequency	Sampling Method
Particulates - Deposited Matter	grams per square metre per month	Once a month (min. of 4 weeks)	AM-19

M2.3 Water and/ or Land Monitoring Requirements

#### POINT 11,13,18,27

Pollutant	Units of measure	Frequency	Sampling Method
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Conductivity	microsiemens per centimetre	Special Frequency 1	In situ
Oil and Grease	milligrams per litre	Special Frequency 1	Grab sample
pH	pH	Special Frequency 1	In situ
Total organic carbon	milligrams per litre	Special Frequency 1	Grab sample
Total suspended solids	milligrams per litre	Special Frequency 1	Grab sample

**POINT 14,15,16,17,19,20,21,22**

Pollutant	Units of measure	Frequency	Sampling Method
pH	pH	Special Frequency 2	In situ

**POINT 14,17,16,15,19,20,21,22**

Pollutant	Units of measure	Frequency	Sampling Method
Conductivity	microsiemens per centimetre	Special Frequency 2	In situ
Oil and Grease	milligrams per litre	Special Frequency 2	Grab sample
Total organic carbon	milligrams per litre	Special Frequency 2	Grab sample
Total suspended solids	milligrams per litre	Special Frequency 2	Grab sample

**POINT 24,25,26**

Pollutant	Units of measure	Frequency	Sampling Method
pH	pH	Special Frequency 3	In situ
Total dissolved solids	milligrams per litre	Special Frequency 3	Grab sample

**POINT 28,29,30,31,32,33,34,35,36,37,38,39,40**

Pollutant	Units of measure	Frequency	Sampling Method
Bicarbonate	milligrams per litre	Quarterly	Representative sample
Calcium	milligrams per litre	Quarterly	Representative sample
Carbonate	milligrams per litre	Quarterly	Representative sample
Chloride	milligrams per litre	Quarterly	Representative sample
Electrical conductivity	microsiemens per centimetre	Quarterly	In situ
Magnesium	milligrams per litre	Quarterly	Representative sample
pH	pH	Quarterly	In situ
Potassium	milligrams per litre	Quarterly	Representative sample
Sodium	milligrams per litre	Quarterly	Representative sample
Standing Water Level	-	Quarterly	In situ
Sulfate	milligrams per litre	Quarterly	Representative sample

**POINT 41,42**

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Pollutant	Units of measure	Frequency	Sampling Method
Bicarbonate	micrograms per litre	Special Frequency 4	Grab sample
Calcium	micrograms per litre	Special Frequency 4	Grab sample
Carbonate	milligrams per litre	Special Frequency 4	Grab sample
Chloride	milligrams per litre	Special Frequency 4	Grab sample
Electrical conductivity	milligrams per litre	Special Frequency 4	In situ
Magnesium	milligrams per litre	Special Frequency 4	Grab sample
pH	milligrams per litre	Special Frequency 4	In situ
Potassium	milligrams per litre	Special Frequency 4	Grab sample
Sodium	milligrams per litre	Special Frequency 4	Grab sample
Sulfate	milligrams per litre	Special Frequency 4	Grab sample

- M2.4 For the purposes of the table(s) above Special Frequency 1 means the collection of samples as soon as practicable after each discharge commences and in any case not more than 12 hours after each discharge commences.
- M2.5 For the purposes of the table(s) above Special Frequency 2 means the collection of samples quarterly (in the event of flow during the quarter) at a time when there is flow and as soon as practicable after each wet weather discharge from points 11, 13, 18 or 27 commences and in any case not more than 12 hours after each discharge commences.
- M2.6 Note: Groundwater monitoring has not been formally included in the licence. However, the licensee is required to undertake groundwater monitoring in accordance with the Department of Planning and Environment approved "Stage 2 Water Management Plan" required under Schedule 4, condition 18 of the Project Approval (08\_0144) for the Stage 2 project. The results of this monitoring are required to be reported in the Annual Review.
- M2.7 For the purposes of the table(s) above Special Frequency 3 means the collection of samples as soon as practicable after each discharge commences from point NR1 and in any case not more than 4 hours after each discharge.
- M2.8 For the purposes of the Tables above special frequency 4 means anytime that a leak is detected in the pipe transfer system between brine dams and in the vicinity of Kurrajong creek, samples are taken at point 41 and 42. The frequency of those samples should be 1 sample taken at each point every 6 hours, until such time as the leak is repaired.

Where there is no natural flow in Kurrajong Creek, visual inspections are to be undertaken if any leaks are detected. Any liquid found pooled in the Creek and downstream of the pipeline is to be sampled. If no liquid is present in Kurrajong Creek samples are not required to be collected.

## M3 Testing methods - concentration limits

- M3.1 Monitoring for the concentration of a pollutant emitted to the air required to be conducted by this licence must be done in accordance with:
- any methodology which is required by or under the Act to be used for the testing of the concentration of the pollutant; or

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

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

Note: The *Protection of the Environment Operations (Clean Air) Regulation 2022* requires testing for certain purposes to be conducted in accordance with test methods contained in the publication "Approved Methods for the Sampling and Analysis of Air Pollutants in NSW".

## M4 Weather monitoring

### M4.1 Requirement to monitor weather

For each monitoring point specified below (by a point number), the licensee must monitor (by sampling and obtaining results by analysis) the parameter specified in Column 1. The licensee must use the sampling method, units of measure, averaging period and sample at the frequency, specified opposite in the other columns:

#### POINT W1

Parameter	Units of Measure	Frequency	Averaging Period	Sampling Method
Rainfall	mm	Continuous	1 hour	AM-4
Wind speed @ 10 metres	m/s	Continuous	15 minute	AM-2 & AM-4
Wind direction @ 10 metres	°	Continuous	15 minute	AM-2 & AM-4
Temperature @ 2 metres	°C	Continuous	15 minute	AM-4
Temperature @ 10 metres	°C	Continuous	15 minute	AM-4
Sigma theta @ 10 metres	°	Continuous	15 minute	AM-2 & AM-4
Solar radiation	W/m <sup>2</sup>	Continuous	15 minute	AM-4
Additional requirements - siting - measurement				AM-1 & AM-4 AM-2 & AM-4

## 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

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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: the date of the issue of this licence.

## M7 Noise monitoring

M7.1 For each monitoring point specified below, the Licensee must monitor the noise or vibration parameter 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.

POINTS: N5, N6 and N8

Parameter	Units of Measure	Frequency	Sampling Method
Ambient Noise	LAeq (15minute) LAmax LA1 LA10 LA90 LAmin	Quarterly monitoring as detailed in the most recently approved "Noise Management Plan" for the premises.	As detailed in the most recently approved "Noise Management Plan" for the premises.

M7.2 POINT: N10

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Parameter	Units of Measure	Frequency	Sampling Method
Ambient Noise	LAeq (15 minutes) LAmax LA1 LA10 LA90 LAmin	Continuous real time noise monitoring as detailed in the most recently approved "Noise Management Plan" for the premises.	As detailed in the most recently approved "Noise Management Plan" for the premises.

M7.3 For the purposes of conditions M7.1 and M7.2 the monitoring locations are described as:

EPA Identification No.	Description of location
N5	Within 30 metres of the residence on the property "Oakleigh"
N6	Within 30 metres of the residence on the property "Newhaven"
N8	Within 30 metres of the residence on the property "Haylin View"
N10	Portable Monitor
N9	Within 30 metres of the residence on the property "High Range"

Note: Monitoring at N8 to commence when surface activities approach the eastern end of the southern longwall panels.

Note: N10 is a portable monitor enabling the monitor to be relocated to areas of potential greatest impact. The licensee is responsible to ensure that it is located at the most suitable location.

M7.4 To assess compliance with the noise limits presented in the Noise Limits table, attended noise monitoring must be undertaken in accordance with the condition titled Determining Compliance, outlined above, and:

- a) at each one of the monitoring locations N5, N6, N8 and N9;
- b) occur Quarterly in a reporting period;
- c) occur during each day, evening and night period as defined in the NSW Industrial Noise Policy for a minimum of:
  - i) 1.5 hours during the day;
  - ii) 30 minutes during the evening; and
  - iii) 1 hour during the night.
- d) occur for three consecutive operating days.

## 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:

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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.
- 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 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 The licensee must retain a copy of the Annual Return supplied to the EPA for a period of at least 4 years after the Annual Return was due to be supplied to the EPA.
- R1.7 Within the Annual Return, the 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.

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.

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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.

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

## R3 Written report

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

## R4 Other reporting conditions

- R4.1 A noise compliance assessment report must be submitted to the EPA within thirty (30) days of the completion of the quarterly noise monitoring. The assessment must be prepared by a suitably qualified and experienced acoustical consultant and include:
- an assessment of compliance with noise limits detailed in the limit conditions of this licence; and
  - an outline of any management actions taken within the monitoring period to address any exceedences of the limits detailed in the limit conditions of this licence.
- R4.2 The licensee must submit to the EPA Armidale Office within 30 days of obtaining the quarterly groundwater sampling results (required under condition M2.3), a report that provides:



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1. The quarterly ground water sampling results; and
2. Delineation of potential pollution sources and
3. A graph of the sampling results, inclusive of historical results, that allows visualisation of the trends over time being shown by sample results.

## 7 General Conditions

### G1 Copy of licence kept at the premises or plant

- G1.1 A copy of this licence must be kept at the premises to which the licence applies.
- G1.2 The licence must be produced to any authorised officer of the EPA who asks to see it.
- G1.3 The licence must be available for inspection by any employee or agent of the licensee working at the premises.

## 8 Pollution Studies and Reduction Programs

### U1 Ground Water Characterisation and Leak Detection

- U1.1 For EPL monitoring points 28, 29, 30, 31, 32, 33 and 34, The licensee must submit as part of their annual return, a groundwater monitoring report that includes and is not limited to:

1. An annual review and summary of quarterly findings from the ongoing groundwater sampling occurring on the premises and
2. A delineation of potential groundwater pollution sources.

This report must be submitted as part of the annual return.

### U2 Ground Water Background Data

Note: Conditions U2 and U3 are pollution studies that are part of the commissioning process of the Brine Dam and form part of the QA/QC checks post construction. These conditions will be removed once dam liner integrity has been confirmed.

- U2.1 Prior to using the New Brine Dam the licensee must take ground water samples from EPL points 36,37,38,39 and 40 in accordance with conditions M2.2. Samples must include analysis for Total and Dissolved Metals.

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## **U3 QA/QC checks for Brine Dam**

U3.1 After the initial fill of the brine dam, Ground Water monitoring bores points 36, 37, 38, 39 and 40 must be sampled monthly for a period of 4 months after initial use of the dam.

Samples taken must include the analytes for points 36, 37, 38, 39 and 40 in condition M2.2 plus dissolved metals and total metals.

## **9 Special Conditions**

### **E1 Quality assurance and verification report**

E1.1 Prior to the commissioning of the Brine Storage Ponds (approved per Stage 2 Development Consent 08\_0144), the licensee must provide the EPA Armidale office with an "as constructed" report, produced by an experienced and qualified engineer. The report must include detailed design plans for the ponds and illustrate the use of low permeability layers to manage mine waters generated by the project. The report also must include a detailed Quality Assurance/Quality Control program that was used throughout the construction of the ponds.

### **E2 Noise Impacts**

E2.1 Noise impacts where wind speed exceeds 3 metres per second at 10 metres above the ground must be addressed by:

a) documenting noise complaints received to identify any higher level of impacts or wind patterns;

where levels of noise complaints indicated a higher level of impact then actions to quantify and ameliorate any enhanced impacts where wind speed exceeds 3 metres per second at 10 metres above the ground should be developed and implemented.

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## Dictionary

### General Dictionary

<b>3DGM [in relation to a concentration limit]</b>	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
<b>Act</b>	Means the Protection of the Environment Operations Act 1997
<b>activity</b>	Means a scheduled or non-scheduled activity within the meaning of the Protection of the Environment Operations Act 1997
<b>actual load</b>	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
<b>AM</b>	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> .
<b>AMG</b>	Australian Map Grid
<b>anniversary date</b>	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.
<b>annual return</b>	Is defined in R1.1
<b>Approved Methods Publication</b>	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
<b>assessable pollutants</b>	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
<b>BOD</b>	Means biochemical oxygen demand
<b>CEM</b>	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> .
<b>COD</b>	Means chemical oxygen demand
<b>composite sample</b>	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.
<b>cond.</b>	Means conductivity
<b>environment</b>	Has the same meaning as in the Protection of the Environment Operations Act 1997
<b>environment protection legislation</b>	Has the same meaning as in the Protection of the Environment Administration Act 1991
<b>EPA</b>	Means Environment Protection Authority of New South Wales.
<b>fee-based activity classification</b>	Means the numbered short descriptions in Schedule 1 of the Protection of the Environment Operations (General) Regulation 2009.
<b>general solid waste (non-putrescible)</b>	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997

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<b>flow weighted composite sample</b>	Means a sample whose composites are sized in proportion to the flow at each composites time of collection.
<b>general solid waste (putrescible)</b>	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
<b>grab sample</b>	Means a single sample taken at a point at a single time
<b>hazardous waste</b>	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
<b>licensee</b>	Means the licence holder described at the front of this licence
<b>load calculation protocol</b>	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
<b>local authority</b>	Has the same meaning as in the Protection of the Environment Operations Act 1997
<b>material harm</b>	Has the same meaning as in section 147 Protection of the Environment Operations Act 1997
<b>MBAS</b>	Means methylene blue active substances
<b>Minister</b>	Means the Minister administering the Protection of the Environment Operations Act 1997
<b>mobile plant</b>	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
<b>motor vehicle</b>	Has the same meaning as in the Protection of the Environment Operations Act 1997
<b>O&amp;G</b>	Means oil and grease
<b>percentile [in relation to a concentration limit of a sample]</b>	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.
<b>plant</b>	Includes all plant within the meaning of the Protection of the Environment Operations Act 1997 as well as motor vehicles.
<b>pollution of waters [or water pollution]</b>	Has the same meaning as in the Protection of the Environment Operations Act 1997
<b>premises</b>	Means the premises described in condition A2.1
<b>public authority</b>	Has the same meaning as in the Protection of the Environment Operations Act 1997
<b>regional office</b>	Means the relevant EPA office referred to in the Contacting the EPA document accompanying this licence
<b>reporting period</b>	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.
<b>restricted solid waste</b>	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
<b>scheduled activity</b>	Means an activity listed in Schedule 1 of the Protection of the Environment Operations Act 1997
<b>special waste</b>	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
<b>TM</b>	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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<b>TSP</b>	Means total suspended particles
<b>TSS</b>	Means total suspended solids
<b>Type 1 substance</b>	Means the elements antimony, arsenic, cadmium, lead or mercury or any compound containing one or more of those elements
<b>Type 2 substance</b>	Means the elements beryllium, chromium, cobalt, manganese, nickel, selenium, tin or vanadium or any compound containing one or more of those elements
<b>utilisation area</b>	Means any area shown as a utilisation area on a map submitted with the application for this licence
<b>waste</b>	Has the same meaning as in the Protection of the Environment Operations Act 1997
<b>waste type</b>	Means liquid, restricted solid waste, general solid waste (putrescible), general solid waste (non-putrescible), special waste or hazardous waste
<b>Wellhead</b>	Has the same meaning as in Schedule 1 to the Protection of the Environment Operations (General) Regulation 2021.

Mr Robert O'Hern

Environment Protection Authority

(By Delegation)

Date of this edition: 20-February-2008

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## End Notes

- 1 Condition A1.3 Not applicable varied by notice issued on <issue date> which came into effect on <effective date>
- 2 Licence varied by notice 1100826, issued on 18-Aug-2009, which came into effect on 18-Aug-2009.
- 3 Licence varied by notice 1126956, issued on 13-Jul-2011, which came into effect on 13-Jul-2011.
- 4 Licence varied by notice 1502129 issued on 20-Dec-2011
- 5 Licence transferred through application 1506423 approved on 29-May-2012 , which came into effect on 31-May-2012
- 6 Licence varied by notice 1506890 issued on 19-Jun-2012
- 7 Licence varied by notice 1516738 issued on 03-Oct-2013
- 8 Licence varied by notice 1518352 issued on 05-Feb-2014
- 9 Licence varied by notice 1521420 issued on 30-Jun-2014
- 10 Licence varied by notice 1526561 issued on 24-Nov-2014
- 11 Licence varied by notice 1528869 issued on 25-May-2015
- 12 Licence varied by notice 1545740 issued on 19-Jan-2017
- 13 Licence varied by notice 1549784 issued on 18-Jun-2019
- 14 Licence varied by notice 1582323 issued on 03-Dec-2019
- 15 Licence varied by notice 1593091 issued on 20-Mar-2020
- 16 Licence varied by notice 1596373 issued on 14-Dec-2020
- 17 Licence varied by notice 1611846 issued on 26-Aug-2021
- 18 Licence varied by notice 1622604 issued on 07-Sep-2022