



Environment Protection Licence

Licence - 1376

| Licence Details | |
|-------------------|-------------|
| Number: | 1376 |
| Anniversary Date: | 01-December |

| Licensee |
|----------------------|
| WARKWORTH MINING LTD |
| PO BOX 267 |
| SINGLETON NSW 2330 |

| Premises |
|------------------------|
| WARKWORTH COAL MINE |
| PUTTY ROAD |
| MOUNT THORLEY NSW 2330 |

| Scheduled Activity |
|----------------------------------|
| Coal works |
| Crushing, grinding or separating |
| Mining for coal |

| Fee Based Activity | Scale |
|----------------------------------|--|
| Coal works | > 5000000 T annual handing capacity |
| Crushing, grinding or separating | > 100000-500000 T annual processing capacity |
| Mining for coal | > 5000000 T annual production capacity |

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|---|
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Environment Protection Licence

Licence - 1376

| | |
|--|-----------|
| INFORMATION ABOUT THIS LICENCE | 4 |
| Dictionary | 4 |
| Responsibilities of licensee | 4 |
| Variation of licence conditions | 4 |
| Duration of licence | 4 |
| Licence review | 4 |
| Fees and annual return to be sent to the EPA | 4 |
| Transfer of licence | 5 |
| Public register and access to monitoring data | 5 |
| 1 ADMINISTRATIVE CONDITIONS | 6 |
| A1 What the licence authorises and regulates | 6 |
| A2 Premises or plant to which this licence applies | 6 |
| A3 Other activities | 6 |
| A4 Information supplied to the EPA | 7 |
| 2 DISCHARGES TO AIR AND WATER AND APPLICATIONS TO LAND | 7 |
| P1 Location of monitoring/discharge points and areas | 7 |
| 3 LIMIT CONDITIONS | 9 |
| L1 Pollution of waters | 9 |
| L2 Concentration limits | 9 |
| L3 Volume and mass limits | 10 |
| L4 Waste | 10 |
| L5 Blasting | 11 |
| 4 OPERATING CONDITIONS | 12 |
| O1 Activities must be carried out in a competent manner | 12 |
| O2 Maintenance of plant and equipment | 12 |
| O3 Dust | 13 |
| O4 Effluent application to land | 13 |
| O5 Emergency response | 13 |
| O6 Processes and management | 14 |
| O7 Waste management | 14 |
| O8 Other operating conditions | 14 |
| 5 MONITORING AND RECORDING CONDITIONS | 15 |
| M1 Monitoring records | 15 |
| M2 Requirement to monitor concentration of pollutants discharged | 15 |
| M3 Testing methods - concentration limits | 16 |



Environment Protection Licence

Licence - 1376

| | | |
|-------------------|---|-----------|
| M4 | Weather monitoring | 17 |
| M5 | Recording of pollution complaints | 17 |
| M6 | Telephone complaints line | 18 |
| M7 | Requirement to monitor volume or mass | 18 |
| M8 | Blasting | 18 |
| M9 | Other monitoring and recording conditions | 18 |
| 6 | REPORTING CONDITIONS | 19 |
| R1 | Annual return documents | 19 |
| R2 | Notification of environmental harm | 20 |
| R3 | Written report | 20 |
| R4 | Other notifications | 21 |
| R5 | Other reporting conditions | 21 |
| 7 | GENERAL CONDITIONS | 23 |
| G1 | Copy of licence kept at the premises or plant | 23 |
| G2 | Other general conditions | 23 |
| 8 | SPECIAL CONDITIONS | 24 |
| E1 | Hunter River Salinity Trading Scheme | 24 |
| DICTIONARY | | 25 |
| | General Dictionary | 25 |

Environment Protection Licence

Licence - 1376

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).



Environment Protection Licence

Licence - 1376

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:

| |
|----------------------|
| WARKWORTH MINING LTD |
| PO BOX 267 |
| SINGLETON NSW 2330 |

subject to the conditions which follow.



Environment Protection Licence

Licence - 1376

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 |
| Crushing, grinding or separating | Crushing, grinding or separating | > 100000 - 500000 T annual processing capacity |
| Mining for coal | Mining for coal | > 5000000 T annual production capacity |

Note: In relation to this licence, the licensee must comply with:

- a) the activity scale limits imposed by this licence;
- b) the activity scale limits which apply for the reporting period specified in this licence; and
- c) the activity scale limits imposed by other legal instruments, such as approvals currently in force under the *Environmental Planning and Assessment Act 1979*.

A2 Premises or plant to which this licence applies

A2.1 The licence applies to the following premises:

| Premises Details |
|--|
| WARKWORTH COAL MINE |
| PUTTY ROAD |
| MOUNT THORLEY |
| NSW 2330 |
| PREMISES MARKED AND SHOWN AS "EPL 1376" ON THE PLAN TITLED "WARKWORTH MINING LTD - EPL 1376", REVISION 05, PAGE 1/3, PREPARED BY ADRIAN WALL, REGISTERED MINE SURVEYOR, DATED 16/10/2018 (EPA REF. DOC18/780507-06). |

A3 Other activities

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



Environment Protection Licence

Licence - 1376

| |
|--------------------------|
| Ancillary Activity |
| Sewage Treatment Systems |

A4 Information supplied to the EPA

A4.1 Works and activities must be carried out in accordance with the proposal contained in the licence application, except as expressly provided by a condition of this licence.

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

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

2 Discharges to Air and Water and Applications to Land

P1 Location of monitoring/discharge points and areas

P1.1 The following points referred to in the table 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.

| Air | | | |
|-----------------------------|-----------------------------|----------------------------|--|
| EPA identi- fication no. | Type of Monitoring Point | Type of Discharge Point | Location Description |
| 9 | Ambient air monitoring | | PM10 monitor "WML North Pit", marked and shown as EPAID "9" on Figure 1. |
| 10 | Ambient air monitoring | | PM10 monitor "Dragline Crossing", marked and shown as EPAID "10" on Figure 1. |
| 11 | Ambient air monitoring | | PM10 monitor "Heavy Vehicle Bridge", marked and shown as EPAID "11" on Figure 1. |
| 12 | Ambient air monitoring | | PM10 monitor "MTIE", marked and shown as EPAID "12" on Figure 1. |

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.

Water and land

Environment Protection Licence

Licence - 1376

| EPA Identification no. | Type of Monitoring Point | Type of Discharge Point | Location Description |
|------------------------|--|--|--|
| 1 | Discharge of saline water under the Hunter River Salinity Trading Scheme (HRSTS) | Discharge of saline water under the Hunter River Salinity Trading Scheme (HRSTS) | HRSTS discharge, marked and shown as EPAID "1" on Figure 1. |
| 14 | Discharge to utilisation area Effluent quality monitoring | Discharge to utilisation area Effluent quality monitoring | North Pit North Crib Hut Envirocycle, marked and shown as Pt "3" on Figure 2. |
| 15 | Effluent quality monitoring, Discharge to utilisation area | Effluent quality monitoring, Discharge to utilisation area | Main Warkworth Staging Pond, marked and shown as Pt "13" on Figure 2. |
| 16 | Effluent quality monitoring | | Warkworth Admin Envirocycle, marked and shown as Pt "6" on Figure 2. |
| 17 | Effluent quality monitoring | | West Pit South Crib Hut Envirocycle, marked and shown as Pt "1" on Figure 2. |
| 18 | Effluent quality monitoring | | Warkworth Medical Centre Envirocycle, marked and shown as Pt "10" on Figure 2. |
| 24 | | Discharge to waters | Transfer of mine water to Hunter Valley Operations (as defined by Environment Protection Licence 640). |
| 25 | Discharge quality monitoring | | Continuous turbidity monitor at co-ordinates 320846, 6391510 (Easting, Northing) in Staged Discharge Dam near to the points at which water is discharged from Point 1. |
| 26 | Ambient water monitoring | | Hunter River, marked and shown as "W1" on Figure 3. |
| 27 | Ambient water monitoring | | Hunter River, marked and shown as "W2" on Figure 3. |
| 28 | Ambient water monitoring | | Hunter River, marked and shown as "W3" on Figure 3. |
| 29 | Ambient water monitoring | | Loders Creek, marked and shown as "W5" on Figure 3. |
| 30 | Ambient water monitoring | | Dights Creek, marked and shown as "WW5" on Figure 3. |
| 31 | Ambient water monitoring | | Wollombi Brook downstream of the premises, marked and shown as "SW40" on Figure 3. |
| 32 | Ambient water monitoring | | Wollombi Brook, marked and shown as "Wollombi Brook" on Figure 3. |
| 33 | Ambient water monitoring | | Wollombi Brook upstream of the premises, marked and shown as "Wollombi Brook Upstream" on Figure 3. |

P1.4 The following points referred to in the table below are identified in this licence for the purposes of weather and/or noise monitoring and/or setting limits for the emission of noise from the premises.

Environment Protection Licence

Licence - 1376

Noise/Weather

| EPA identification no. | Type of monitoring point | Location description |
|------------------------|--|---|
| 4 | Air blast overpressure & ground vibration peak particle velocity monitoring | Blast monitor "Warkworth", marked and shown as EPAID "4" on Figure 1. |
| 5 | Air blast overpressure & ground vibration peak particle velocity monitoring | Blast monitor "Wambo Road", marked and shown as EPAID "5" on Figure 1. |
| 6 | Air blast overpressure & ground vibration peak particle velocity monitoring | Blast monitor "Bulga Village", marked and shown as EPAID "6" on Figure 1. |
| 7 | Air blast overpressure & ground vibration peak particle velocity monitoring | Blast monitor "Wollemi Peak Road", marked and shown as EPAID "7" on Figure 1. |
| 8 | Air blast overpressure & ground vibration peak particle velocity monitoring | Blast monitor "Putty Road - MTIE", marked and shown as EPAID "8" on Figure 1. |
| 13 | Meteorological Station – to determine meteorological conditions for noise monitoring | Charlton Ridge weather station, marked and shown as EPAID "M4.1" on Figure 1. |

P1.5 For the purposes of conditions P1.1, P1.3 and P1.4:

(i) "Figure 1" refers to the plan titled "Warkworth Mining Ltd. EPL 1376" Monitoring Points, Revision 5, Page 2/3, prepared by Adrian Wall, Registered Mine Surveyor, dated 16/10/2018 (EPA ref. DOC18/780507-06).

(ii) "Figure 2" refers to the plan titled "Warkworth Mining Ltd EPL 1376 - Sewage Treatment Systems", Revision 09, prepared by James Sherritt, Registered Mine Surveyor, dated 20/11/2019 (EPA ref. DOC19/899218-3).

(iii) Figure 3" refers to the plan titled "EPL 1376 Ambient Surface Water Monitoring Locations", Revision 1, dated 29/1/202 (EPA ref. DOC20/83395).

The datum for grid references in provided in the plans above is the Geodetic Datum of Australia 1994 (GDA94), Zone 56.

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



Environment Protection Licence

Licence - 1376

specified ranges.

L2.3 To avoid any doubt, this condition does not authorise the pollution of waters by any pollutant other than those specified in the table/s.

L2.4 Water and/or Land Concentration Limits

POINT 1

| Pollutant | Units of Measure | 50 percentile concentration limit | 90 percentile concentration limit | 3DGM concentration limit | 100 percentile concentration limit |
|------------------------|----------------------|-----------------------------------|-----------------------------------|--------------------------|------------------------------------|
| pH | pH | | | | 6.5-9.5 |
| Total suspended solids | milligrams per litre | | | | 120 |

L3 Volume and mass limits

L3.1 For each discharge point or utilisation area specified below (by a point number), the volume/mass of:

- a) liquids discharged to water; or;
- b) solids or liquids applied to the area;

must not exceed the volume/mass limit specified for that discharge point or area.

| Point | Unit of Measure | Volume/Mass Limit |
|-------|--------------------|-------------------|
| 1 | megalitres per day | 100 |

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 | Biosolids categorised as | Soil amendment for | | The licensee |

Environment Protection Licence

Licence - 1376

| | unrestricted use, or as restricted use 1, 2 or 3, in accordance with the criteria set out in the biosolids guidelines | rehabilitation of mining land | | must comply with "The biosolids exemption 2014." |
|----|---|---|---|--|
| NA | Fly ash | Dry phase coal ash from Redbank Power Station for use as soil amendment and in rehabilitation of mine | As specified in each particular resource recovery exemption | The licensee must comply with "The coal ash exemption 2017". |
| NA | Stormwater | To be used for dust mitigation and other mining purposes | As specified in each particular resource recovery exemption | The licensee must comply with "The stormwater exemption 2014". |
| NA | Coal Washery Reject | To be applied to land for rehabilitation of coal mine | As specified in each particular resource recovery exemption | The licensee must comply with "The Mount Thorley-Warkworth Operations exemption 2010". |
| NA | Excavated natural material | Overburden from mining at MTO Complex to create final landforms | As specified in each particular resource recovery exemption | The licensee must comply with "The excavated natural material exemption 2014". |
| NA | Gypsum plaster board | Soil amendment for rehabilitation of mining land | As specified in each particular resource recovery exemption | The licensee must comply with "The recovered plasterboard exemption 2014". |
| NA | Compost (The compost exemption 2016-NSW EPA) | Soil amendment for rehabilitation of mining land | As specified in each particular resource recovery exemption | The licensee must comply with "The compost exemption 2016". |

- L4.2 The licensee must not store more than 100 tonnes (equivalent to 30 heavy plant tyres) of heavy plant waste tyres on the premises at any one time.

L5 Blasting

- L5.1 The airblast overpressure level from blasting operations in or on the premises must not exceed: 115 dB (Lin Peak) for more than 5% of the total number of blasts during each reporting period; at either Point 4, 5, 6, 7 or 8 in condition P1.4.
- L5.2 The airblast overpressure level from blasting operations in or on the premises must not exceed: 120 dB (Lin Peak) at any time; at either Point 4, 5, 6, 7 or 8 in condition P1.4.
- L5.3 The ground vibration peak particle velocity from blasting operations carried out in or on the premises must not exceed: 5 mm/second for more than 5% of the total number of blasts during each reporting period;

Environment Protection Licence

Licence - 1376

at either Point 4, 5, 6, 7 or 8 in condition P1.4.

- L5.4 The ground vibration peak particle velocity from blasting operations carried out in or on the premises must not exceed:
10 mm/second at any time;
at either Point 4, 5, 6, 7 or 8 in condition P1.4.
- L5.5 Blasting in or on the premises must only be carried out between 0700 hours and 1800 hours, Monday to Saturday. Blasting in or on the premises must not take place on Sundays or Public Holidays without the prior approval of the EPA.
- L5.6 Offensive blast fume must not be emitted from the premises.

Definition:

Offensive blast fume means post-blast gases from the detonation of explosives at the premises that by reason of their nature, duration, character or quality, or the time at which they are emitted, or any other circumstances:

- 1. are harmful to (or likely to be harmful to) a person that is outside the premises from which it is emitted, or*
- 2. interferes unreasonably with (or is likely to interfere unreasonably with) the comfort or repose of a person who is outside the premises from which it is emitted.*

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.

Sewage Treatment Systems

- O2.2 The licensee is responsible for the correct operation of the sewage treatment system(s) on the premises.
- O2.3 Correct operation involves regular supervision and system maintenance. The licensee must be aware of the

Environment Protection Licence

Licence - 1376

system management requirements and must ensure that the necessary service contracts are in place.

- O2.4 The sewage treatment system must be serviced by a suitably qualified and experienced wastewater technician at least once in each quarterly period and a minimum of four times per year.
- O2.5 The licensee must record each inspection and any actions required or recommended by the technician including all results of tests performed on the sewage treatment system by the technician as required in Condition O2.2.
- O2.6 The licensee must prepare a sewage treatment system maintenance program. The program must include:
- a) Certification from a technician that the sewage treatment system is operating within its capacity;
 - b) Date, time and results of all routine maintenance procedures undertaken to the sewage treatment system; and
 - c) Provide written records of each quarterly inspection.

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 trafficable areas, coal storage areas and vehicle manoeuvring areas in or on the premises must be maintained, at all times, in a condition that will minimise the generation, or emission from the premises, of wind-blown or traffic generated dust.
- O3.3 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 Effluent application to land

- O4.1 The quantity of effluent applied to the utilisation area(s) must not exceed the capacity of the utilisation area(s) to effectively utilise the effluent.

For the purpose of this condition, “effectively utilise” includes the ability of the soil to absorb the nutrient, salt and hydraulic loads and the applied organic material without causing harm to the environment.

- O4.2 Effluent application to the utilisation area(s) must not occur in a manner that causes surface run-off from the utilisation area(s).
- O4.3 The licensee must ensure that sprays or mists from irrigation do not drift beyond the boundary of the effluent utilisation areas(s).
- O4.4 The licensee must ensure that the effluent discharge utilisation area(s) is fenced and signposted and controlled in a manner to ensure exclusion of persons from the area(s).

O5 Emergency response

Environment Protection Licence

Licence - 1376

Note: The licensee must maintain, and implement as necessary, a current Pollution Incident Response Management Plan (PIRMP) for the premises in accordance with the requirements in Part 5.7A of the Act and Chapter 4 of the Protection of the Environment Operations (General) Regulation 2022.

O6 Processes and management

O6.1 All above ground tanks containing material that is likely to cause environmental harm must be bunded or have an alternative spill containment system in place.

O6.2 Bunds must:

- a) have walls and floors constructed of impervious materials;
- b) be of sufficient capacity to contain 110% of the volume of the tank (or 110% volume of the largest tank where a group of tanks are installed);
- c) have floors graded to a collection sump; and
- d) not have a drain valve incorporated in the bund structure,

or be constructed and operated in a manner that achieves the same environmental outcome.

O7 Waste management

Heavy Plant Tyre Disposal

O7.1 The licensee is authorised to dispose of heavy plant tyre waste generated on the premises, in the pit. The licensee must:

- a) ensure that heavy plant waste tyres are re-used on the premises as much as practical;
- b) ensure that any surplus heavy plant waste tyres can be emplaced by being spread out on the pit-floor and buried as deep as practical, but, covered by at least 20m of inert material beneath any final rehabilitated surface;
- c) place the tyres at least 10m away from coarse reject material or tailings emplacement areas;
- d) not place any tyres near heated material; and
- e) not place any tyres in an area likely to leach to any watercourse.

O8 Other operating conditions

O8.1 The licensee is authorised to receive saline mine water from the Mt Thorley Coal Mine (as defined in Environment Protection Licence 1976), the Hunter Valley Operations Coal Complex (as defined in Environment Protection Licence 640), the Bulga Coal Mine (as defined in Environment Protection Licence 563) and saline water from Redbank Power Station (as defined in Environment Protection Licence 11262) for storage and use in activities authorised by the licence.

5 Monitoring and Recording Conditions



Environment Protection Licence

Licence - 1376

M1 Monitoring records

- M1.1 The results of any monitoring required to be conducted by this licence or a load calculation protocol must be recorded and retained as set out in this condition.
- M1.2 All records required to be kept by this licence must be:
- a) in a legible form, or in a form that can readily be reduced to a legible form;
 - b) kept for at least 4 years after the monitoring or event to which they relate took place; and
 - c) produced in a legible form to any authorised officer of the EPA who asks to see them.
- M1.3 The following records must be kept in respect of any samples required to be collected for the purposes of this licence:
- a) the date(s) on which the sample was taken;
 - b) the time(s) at which the sample was collected;
 - c) the point at which the sample was taken; and
 - d) the name of the person who collected the sample.

M2 Requirement to monitor concentration of pollutants discharged

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

M2.2 Air Monitoring Requirements

POINT 9,10,11,12

| Pollutant | Units of measure | Frequency | Sampling Method |
|-----------|----------------------------|------------|------------------|
| PM10 | micrograms per cubic metre | Continuous | Special Method 1 |

- M2.3 For the purposes of the table(s) above, Special Method 1 means the monitoring of PM10 in strict accordance with the manufacturer's operating manual supplied with the continuous monitoring equipment and titled "Model 8530/8531/8532 DustTrak™ II Aerosol Monitor Operation and Service Manual (P/N 6001893), Revision A, September 2008", or any updated version as published by the manufacturer.

M2.4 Water and/ or Land Monitoring Requirements

POINT 1

| Pollutant | Units of measure | Frequency | Sampling Method |
|--------------|-----------------------------|-----------------------------|---|
| Conductivity | microsiemens per centimetre | Continuous during discharge | A probe designed to measure the range 0 to 10,000 uS/cm |

Environment Protection Licence

Licence - 1376

| | | | |
|------------------------|----------------------|----------------------------|-------------|
| pH | pH | Daily during any discharge | Grab sample |
| Total suspended solids | milligrams per litre | Daily during any discharge | Grab sample |

POINT 14,15,16,17,18

| Pollutant | Units of measure | Frequency | Sampling Method |
|------------------|--|-----------|-----------------|
| Faecal Coliforms | colony forming units per 100 millilitres | Quarterly | Grab sample |
| pH | pH | Quarterly | Grab sample |

POINT 25

| Pollutant | Units of measure | Frequency | Sampling Method |
|-----------|-------------------------------|-----------------------------|-----------------|
| Turbidity | nephelometric turbidity units | Continuous during discharge | Probe |

POINT 26,27,28,29,30,31,32,33

| Pollutant | Units of measure | Frequency | Sampling Method |
|-------------------------|-----------------------------|-----------|-----------------|
| Electrical conductivity | microsiemens per centimetre | Quarterly | Grab sample |
| pH | pH | Quarterly | Grab sample |
| Total suspended solids | milligrams per litre | Quarterly | Grab sample |

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
 - 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
 - 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.

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".

- 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.

Environment Protection Licence

Licence - 1376

M3.3 Sampling, storage and analysis of electrical conductivity by grab sample is permitted to be undertaken in accordance with AECOM Australia Method: Conductivity by classical using APHA 2510 B (EPA approval DOC18/17513-08).

M3.4 Sampling, storage and analysis of pH by grab sample is permitted to be undertaken in accordance with AECOM Australia Method: pH by classical using APHA 4500 H+B (EPA Approval DOC18/17513-08).

M4 Weather monitoring

M4.1 At the point(s) identified below, the licensee must monitor (by sampling and obtaining results by analysis) the parameters specified in Column 1 of the table below, using the corresponding sampling method, units of measure, averaging period and sampling frequency, specified opposite in the Columns 2, 3, 4 and 5 respectively.

POINT 13

| Parameter | Sampling method | Units of measure | Averaging period | Frequency |
|-----------------------------|------------------|-------------------|------------------|------------|
| Rainfall | AM-4 | millimetres | 10 minutes | Continuous |
| Temperature at 2 metres | AM-2 & AM-4 | degrees Celsius | 10 minutes | Continuous |
| Wind Speed at 10 metres | AM-2 & AM-4 | metres per second | 10 minutes | Continuous |
| Wind Direction at 10 metres | AM-2 & AM-4 | Degrees | 10 minutes | Continuous |
| Sigma theta | Special Method 2 | Degrees | 10 minutes | Continuous |

M4.2 For the purpose of the table(s) above, Special Method 2 means sampling in accordance with Fact Sheet D of the Noise Policy for Industry 2017.

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:

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



Environment Protection Licence

Licence - 1376

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 Requirement to monitor volume or mass

- M7.1 For each discharge point or utilisation area specified below, the licensee must monitor:
- a) the volume of liquids discharged to water or applied to the area;
 - b) the mass of solids applied to the area;
 - c) the mass of pollutants emitted to the air;
- at the frequency and using the method and units of measure, specified below.

POINT 1

| Frequency | Unit of Measure | Sampling Method |
|-----------------------------|--------------------|-----------------------|
| Continuous during discharge | megalitres per day | Ultrasonic flow meter |

M8 Blasting

- M8.1 To determine compliance with conditions L5.1, L5.2 L5.3 and L5.4:
- a) Airblast overpressure and ground vibration levels must be measured and electronically recorded for Points 4, 5, 6, 7 and 8 for the parameters specified in Column 1 of the table below; and
 - b) The licensee must use the units of measure, sampling method, and sample at the frequency specified opposite in the other columns.

| Parameter | Units of Measure | Frequency | Sampling Method |
|---|------------------------|------------|------------------------------------|
| Airblast Overpressure | Decibels (Linear Peak) | All blasts | Australian Standard AS 2187.2-2006 |
| Ground Vibration Peak Particle Velocity | millimetres/second | All blasts | Australian Standard AS 2187.2-2006 |

M9 Other monitoring and recording conditions

HRSTS Monitoring

Environment Protection Licence

Licence - 1376

- M9.1 The licensee must continuously operate and maintain communication equipment which makes the conductivity and flow measurements, taken at Point 1 available to the "Service Coordinator" within one hour of those measurements being taken and makes them available in the format specified in the "Hunter River Salinity Trading Scheme Discharge Point Telemetry Specification - Rev V1.0 released 4 October 2018" as published by Water NSW.
- M9.2 The licensee must ensure that all monitoring data is within a margin of error of 5% for conductivity measurements and 10% for discharge flow measurement.
- M9.3 The licensee must mark Point 1, with a sign which clearly indicates the name of the licensee, whether the monitoring point is up or down stream of the discharge point(s) and that it is a monitoring point for the Hunter River Salinity Trading Scheme.

Requirement to Monitor Particulate Matter

- M9.4 The licensee must record the average PM10 concentration at Points 9, 10, 11 and 12 at intervals of 10 minutes. This data must be made available upon request by any EPA authorised officer who asks to see them.

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.

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

Environment Protection Licence

Licence - 1376

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 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.

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.

R3 Written report

- R3.1 Where an authorised officer of the EPA suspects on reasonable grounds that:
- a) where this licence applies to premises, an event has occurred at the premises; or
 - b) where this licence applies to vehicles or mobile plant, an event has occurred in connection with the carrying out of the activities authorised by this licence, and the event has caused, is causing or is likely to cause material harm to the environment (whether the harm occurs on or off premises to which the licence applies), the authorised officer may request a written report of the event.
- R3.2 The licensee must make all reasonable inquiries in relation to the event and supply the report to the EPA within such time as may be specified in the request.
- R3.3 The request may require a report which includes any or all of the following information:
- a) the cause, time and duration of the event;

Environment Protection Licence

Licence - 1376

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

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

R4 Other notifications

Notification of Pollution of Waters

- R4.1 The licensee must notify the EPA by telephoning the Environment Line service on 131 555 immediately after the licensee becomes aware of any contravention or potential contravention of condition L1.1.
- R4.2 The licensee must provide written details of the notification to the EPA by email to info@epa.nsw.gov.au within 7 days of the date of the notification.

R5 Other reporting conditions

HRSTS Reporting

- R5.1 The licensee must compile a written report of the activities under the Hunter River Salinity Trading Scheme (HRSTS) for each scheme year. The scheme year shall run from 1 July to 30 June each year. The written report must be submitted to the EPA by email to info@epa.nsw.gov.au within 60 days after the end of each scheme year and be in a form and manner approved by the EPA. The information will be used by the EPA to compile an annual HRSTS report.
- R5.2 The licensee must include graphical analysis of turbidity measured at Point 25 for the length of any discharges from Point 1 within the HRSTS Report that includes the two hour period prior to the commencement of any discharge from Point 1 and the two hour period after any discharge from Point 1.

Blast Exceedance Reporting

- R5.3 The licensee must report any exceedance of the licence blasting limits to the EPA by email to info@epa.nsw.gov.au as soon as practicable after the exceedance becomes known to the licensee or to one of the licensee's employees or agents.

Blast Monitoring Report

Environment Protection Licence

Licence - 1376

- R5.4 The results of the blast monitoring required by condition M8.1 must be submitted to the EPA at the end of each reporting period.

Sewage Treatment System Reporting

- R5.5 The sewage treatment system maintenance program required by condition O2.4 must be submitted annually to the EPA with the Annual Return.
- R5.6 The licensee must retain a copy of each report required by condition O2.3 for 3 years from the date each record is made.

Heavy Plant Tyre Disposal Report

- R5.7 The licensee must provide the EPA with the Annual Return a Heavy Plant Tyre Disposal Report. The Report must include a plan of the disposed heavy plant waste tyres on the premises for the period that includes:
- (i) each tyre serial number;
 - (ii) supplier of each tyre;
 - (iii) purchase date of each tyre;
 - (iv) disposal date of each tyre;
 - (v) co-ordinates (easting and northings) of the disposal of each tyre;
 - (vi) the Relative Level (RL) in metres AHD of each tyre placed in the pit;
 - (vii) the number of tyres buried in a particular area; and
 - (viii) the cumulative tonnage of tyres disposed of at the premises each year.

Water Quality Report

- R5.8 The licensee must provide the EPA with its Annual Return an annual water quality monitoring report prepared by an appropriately qualified and experienced person that includes the following:
- a) for the monitoring required by the licence during the reporting period to which the Annual Return relates:
 - (i) a summary of results for all ambient water quality monitoring required by the licence in table form and graphical form;
 - (ii) total daily rainfall records from the premises meteorological monitoring required by the licence on the day that the sampling was undertaken in table form;
 - (iii) total daily continuous rainfall records in graphical form; and
 - (iv) a plan with the monitoring locations.
 - b) A graphical presentation of the trends of monitoring results required by the licence for the reporting period to which the Annual Return relates and the preceding data for the period of record the licensee has monitoring results for the licensed location.
 - c) A graphical representation of total daily continuous rainfall records required by the licence for the record that matches the ambient water quality results, if available.

7 General Conditions

Environment Protection Licence

Licence - 1376

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 Other general conditions

G2.1 Completed Programs

| Program | Description | Completed Date |
|--|---|------------------|
| PRP 1 - Salinity Levels | During the next HRSTS discharge the licensee must monitor salinity levels at the nearest downstream irrigation off-take point, to coincide with the peak flow of discharge water. A report must be submitted to the RM within 30 days after sampling.. The purp | 15-August-2008 |
| Coal Mine Particulate Matter Control Best Practice | Required licensee to conduct a site specific Best Management Practice (BMP) determination to identify ways to reduce particle emissions. | 30-July-2012 |
| Premises Noise Limits | The licensee is to determine noise limits for the premises in accordance with the INP or otherwise as consistent with the project approval and develop a compliance monitoring program to assess compliance with those limits | 08-November-2018 |
| Particulate Matter Control Best Practice Implementation – Wheel Generated Dust | Implementation of particulate matter best management practices to address wheel-generated dust. | 15-August-2014 |
| Particulate Matter Control Best Practice Implementation – Disturbing and Handling Overburden under Adverse Weather Conditions | Implementation of particulate matter best management practices to address the handling of overburden during adverse weather. | 15-August-2014 |
| Particulate Matter Control Best Practice Implementation - Trial of best Practice Measures for Disturbing and Handling Overburden | Investigation to establish best practice measures for the handling of overburden. | 14-April-2014 |
| Coal Mine Wind Erosion of Exposed Land Assessment | Assessment of predicted vs actual exposed lands | 31-March-2015 |

Environment Protection Licence

Licence - 1376

8 Special Conditions

E1 Hunter River Salinity Trading Scheme

- E1.1 This licence authorises the discharge of saline water into the Hunter River Catchment from an authorised discharge point (or points), in accordance with the Protection of the Environment Operations (Hunter River Salinity Trading Scheme) Regulation 2002.
- E1.2 For the purpose of clauses 23 of the Protection of the Environment Operations (Hunter River Salinity Trading Scheme) Regulation 2002 the licensee must apply the conversion factor of 0.6.
- E1.3 The licensee must not exceed the hourly volume discharge limit calculated using the following formula, at all discharge point(s) on this licence titled "Discharge of saline water under the Hunter River Salinity Trading Scheme (HRSTS)":

$$H = V / RRT$$

Where:

H is the hourly volume discharge limit (in megalitres per hour);

V is the licence holder's volume discharge limit for the block (in megalitres) calculated in accordance with clause 23 of the Protection of the Environment Operations (Hunter River Salinity Trading Scheme) Regulation 2002; and

RRT is the difference between the discharge stop and start times shown on the river register for that block (in hours)

Note 1: The intent of this condition is to prevent spikes of saline water in the Hunter River as a result of discharges of less than the duration permitted by the river register.

Note 2: A river register is issued by the Service Co-ordinator and allows participants of the Hunter River Salinity Trading Scheme (HRSTS) to discharge saline to the Hunter River during a discharge period.



Environment Protection Licence

Licence - 1376

Dictionary

General Dictionary

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

Environment Protection Licence

Licence - 1376

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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> . |



Environment Protection Licence

Licence - 1376

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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 Mitchell Bennett

Environment Protection Authority

(By Delegation)

Date of this edition: 21-August-2000



Environment Protection Licence

Licence - 1376

| End Notes | |
|-----------|--|
| 1 | Licence varied by notice 1002948, issued on 14-Dec-2000, which came into effect on 08-Jan-2001. |
| 2 | Licence varied by notice 1010107, issued on 03-Oct-2001, which came into effect on 28-Oct-2001. |
| 3 | Licence varied by Change to contact name, issued on 29-Oct-2001, which came into effect on 29-Oct-2001. |
| 4 | Condition HRSTS Dis Note varied by notice issued on <issue date> which came into effect on <effective date> |
| 5 | Licence varied by notice 1013324, issued on 07-Dec-2001, which came into effect on 01-Jan-2002. |
| 6 | Licence varied by notice 1025563, issued on 25-Mar-2003, which came into effect on 19-Apr-2003. |
| 7 | Licence varied by notice 1029806, issued on 11-Aug-2003, which came into effect on 05-Sep-2003. |
| 8 | Licence varied by notice 1033326, issued on 22-Jan-2004, which came into effect on 23-Jan-2004. |
| 9 | Licence varied by notice 1040602, issued on 18-Nov-2004, which came into effect on 26-Nov-2004. |
| 10 | Licence varied by notice 1091071, issued on 15-Aug-2008, which came into effect on 15-Aug-2008. |
| 11 | Condition A1.3 Not applicable varied by notice issued on <issue date> which came into effect on <effective date> |
| 12 | Licence varied by notice 1104302, issued on 26-Nov-2009, which came into effect on 26-Nov-2009. |
| 13 | Licence varied by notice 1110517, issued on 08-Jan-2010, which came into effect on 08-Jan-2010. |
| 14 | Licence varied by notice 1501507 issued on 21-Nov-2011 |
| 15 | Licence varied by notice 1506280 issued on 12-Jun-2012 |
| 16 | Licence varied by notice 1507156 issued on 04-Jul-2012 |
| 17 | Licence varied by notice 1510435 issued on 21-Mar-2013 |
| 18 | Licence varied by notice 1516204 issued on 05-Sep-2013 |
| 19 | Licence varied by notice 1522186 issued on 16-Oct-2014 |
| 20 | Licence varied by notice 1530023 issued on 23-Apr-2015 |
| 21 | Licence varied by notice 1530685 issued on 15-Jun-2015 |



Environment Protection Licence

Licence - 1376

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|----|--------------------------|-------------------------------|
| 22 | Licence varied by notice | 1539641 issued on 20-Sep-2016 |
| 23 | Licence varied by notice | 1553572 issued on 17-Aug-2017 |
| 24 | Licence varied by notice | 1570108 issued on 06-Feb-2019 |
| 25 | Licence varied by notice | 1577535 issued on 29-Mar-2019 |
| 26 | Licence varied by notice | 1586988 issued on 26-Feb-2020 |
| 27 | Licence varied by notice | 1607608 issued on 25-Oct-2021 |
| 28 | Licence varied by notice | 1649849 issued on 08-Jul-2025 |