



# Environment Protection Licence

Licence - 640

Licence Details	
Number:	640
Anniversary Date:	01-April

Licensee
HV OPERATIONS PTY LTD
PO BOX 315
SINGLETON NSW 2330

Premises
HUNTER VALLEY OPERATIONS
LEMINGTON ROAD
SINGLETON NSW 2330

Scheduled Activity
Chemical production
Chemical storage
Coal works
Crushing, grinding or separating
Extractive activities
Mining for coal

Fee Based Activity	Scale
Coal works	> 5000000 T annual handing capacity
Crushing, grinding or separating	> 2000000 T annual processing capacity
Dangerous goods production	> 25000 T annual production capacity
General chemicals storage	> 5000-100000 kL storage capacity
Mining for coal	> 5000000 T annual production capacity
Other extractive activities	> 50000-100000 T annually extracted or processed



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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>HV OPERATIONS PTY LTD</b>
<b>PO BOX 315</b>
<b>SINGLETON NSW 2330</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
Crushing, grinding or separating	Crushing, grinding or separating	> 2000000 T annual processing capacity
Chemical production	Dangerous goods production	> 25000 T annual production capacity
Chemical storage	General chemicals storage	> 5000 - 100000 kL storage capacity
Mining for coal	Mining for coal	> 5000000 T annual production capacity
Extractive activities	Other extractive activities	> 50000 - 100000 T annually extracted or processed

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
HUNTER VALLEY OPERATIONS
LEMINGTON ROAD
SINGLETON
NSW 2330
PREMISES MARKED AND SHOWN BOUNDED BY POINTS "1" TO "20" ON THE PLAN TITLED "HVO EPL 640", DATED 25/03/2025 AND SHAPE FILES (EPA REF. DOC25/262220-1).



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### A3 Other activities

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

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 identification no.	Type of Monitoring Point	Type of Discharge Point	Location Description
13	Ambient air monitoring		PM10 TEOM at "Howick", marked and shown as "13" on Figure 1.
15	Ambient air monitoring		PM10 TEOM at "Wandewoi", marked and shown as "15" on Figure 1.
16	Ambient air monitoring		PM10 TEOM at "Knodlers Lane", marked and shown as "16" on Figure 1.
17	Ambient air monitoring		PM10 TEOM at the Golden Highway, marked and shown as "17" on Figure 1.
44	Ambient air monitoring		PM10 TEOM at West Pit, marked and shown as "44" on Figure 1.

Note: The EPA notes that licensee will also use monitoring data from the Upper Hunter Air Quality Monitoring Network monitors at Maison Dieu and Warkworth when deriving a differential between upwind and downwind PM<sub>10</sub> concentrations.



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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*

EPA Identification no.	Type of Monitoring Point	Type of Discharge Point	Location Description
3	Discharge of saline water under the Hunter River Salinity Trading Scheme (HRSTS) Discharge quality monitoring Volume monitoring	Discharge of saline water under the Hunter River Salinity Trading Scheme (HRSTS) Discharge quality monitoring Volume monitoring	HRSTS discharge pipe from Dam 11, marked and shown as "3" on Figure 1.
4	Discharge of saline water under the Hunter River Salinity Trading Scheme (HRSTS) Discharge Quality Volume Monitoring	Discharge of saline water under the Hunter River Salinity Trading Scheme (HRSTS) Discharge Quality Volume Monitoring	Discharge from outlet pipe on Parnell's Dam, marked and shown as "4" on Figure 1.
5	Alluvial lands discharge Discharge quality monitoring Volume monitoring	Alluvial lands discharge Discharge quality monitoring Volume monitoring	Outlet of the alluvial lands discharge pipeline, marked and shown as "5" on Figure 1.
8	Discharge of saline water under the Hunter River Salinity Trading Scheme (HRSTS) Discharge quality monitoring Volume monitoring	Discharge of saline water under the Hunter River Salinity Trading Scheme (HRSTS) Discharge quality monitoring Volume monitoring	Outlet of discharge pipe from the Lake James storage dam, marked and shown as "8" on Figure 1.
23	Discharge to utilisation area Effluent quality monitoring	Discharge to utilisation area Effluent quality monitoring	Howick STP, marked and shown as "23" on Figure 2.
24		Discharge to utilisation area	Howick Primary Lagoon, marked and shown as "24" on Figure 2.
25	Discharge to utilisation area Effluent quality monitoring	Discharge to utilisation area Effluent quality monitoring	Howick Secondary Lagoon, marked and shown as "25" on Figure 2.
26	Discharge to utilisation area Effluent quality monitoring	Discharge to utilisation area Effluent quality monitoring	HVO North STP, marked and shown as "26" on Figure 2.
27		Discharge to utilisation area	HVO South STP, marked and shown as "27" on Figure 2.
28		Discharge to utilisation area	HVO South Primary Lagoon, marked and shown as "28" on Figure 2.

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29	Discharge to utilisation area Effluent quality monitoring	Discharge to utilisation area Effluent quality monitoring	HVO South Secondary Lagoon, marked and shown as "29" on Figure 2.
45	Ambient water monitoring		Hunter River, marked and shown as "H1 Hunter R (upstream K Dam)" on Figure 4.
46	Ambient water monitoring		Hunter River, marked and shown as "H2 Hunter R." on Figure 4.
47	Ambient water monitoring		Hunter River, marked and shown as "H3 Hunter River downstream Wollombi" on Figure 4.
48	Ambient water monitoring		Hunter River, marked and shown as "W1 Hunter River (Carrington)" on Figure 4.
49	Ambient water monitoring		Hunter River, marked and shown as "W109 Hunter R. Moses Crossing" on Figure 4.
50	Ambient water monitoring		Wollombi Brook, marked and shown as "W2 Wollombi Bk" on Figure 4.
51	Ambient water monitoring		Hunter River, marked and shown as "W3 Hunter River" on Figure 4.
52	Ambient water monitoring		Hunter River, marked and shown as "W4 Hunter River (Oaklands)" on Figure 4.
53	Ambient water monitoring		Wollombi Brook, marked and shown as "Warkworth Bridge Wollombi Brook" on Figure 4.
54	Ambient water monitoring		Wollombi Brook, marked and shown as "WL1 Wollombi Bk" on Figure 4.
55	Ambient water monitoring		Dam 19s, marked and shown as "55" on Figure 1.

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.

## Noise/Weather

EPA identification no.	Type of monitoring point	Location description
9	Air blast overpressure & ground vibration peak particle velocity monitoring	Blast monitor at Jerrys Plains, marked and shown as "9" on Figure 1.
11	Air blast overpressure & ground vibration peak particle velocity monitoring	Blast monitor at Warkworth, marked and shown as "11" on Figure 1.
18	Air blast overpressure & ground vibration peak particle velocity monitoring	Blast monitor at Moses Crossing, marked and shown as "18" on Figure 1.
19	Meteorological Station – to determine meteorological conditions for noise monitoring	Meteorological station at the HVO corporate office, marked and shown as "19" on Figure 1.
21	Air blast overpressure & ground vibration peak particle velocity monitoring	Blast monitor at Maison Dieu, marked and shown as "21" on Figure 1.
22	Meteorological Station – to determine meteorological conditions for noise monitoring	Meteorological station near Cheshunt, marked and shown as "22" on Figure 1.



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36	Noise monitoring	Attended noise monitor location, marked and shown as "NM1A" on Figure 3.
37	Noise monitoring	Attended noise monitor location, marked and shown as "NM1B" on Figure 3.
38	Noise monitoring	Attended noise monitor location, marked and shown as "NM1C" on Figure 3.
39	Noise monitoring	Attended noise monitor location, marked and shown as "NM2" on Figure 3.
40	Noise monitoring	Attended noise monitor location, marked and shown as "NM3" on Figure 3.
41	Noise monitoring	Attended noise monitor location, marked and shown as "NM4" on Figure 3.
42	Noise monitoring	Attended noise monitor location, marked and shown as "NM5" on Figure 3.
43	Noise monitoring	Attended noise monitor location, marked and shown as "NM6" on Figure 3.

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

- (i) Figure 1 refers to the plan titled "HVO EPL 640 Monitors", dated 11/06/2025 (EPA ref. DOC25/480576-1).
- (ii) Figure 2 refers to the plan titled "HVO EPL 640 Sewage Treatment Points and Mine Waters Transfer Points" dated 25/3/2025 (EPA ref. DOC23/262220-4).
- (iii) Figure 3 refers to the plan titled "HVO EPL 640 Receptors" dated 25/3/2025 (EPA ref. DOC25/262220-3).
- (iv) Figure 4 refers to the plan titled "Attachment 1 - HVO Ambient Water Quality Monitoring" dated 24/9/2020 (EPA ref. DOC20/790499).

The datum for grid references in these plans is the Geodetic Datum of Australia 2020 (GDA2020), 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 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.



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

### POINT 3,4

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

### POINT 5

Pollutant	Units of Measure	50 percentile concentration limit	90 percentile concentration limit	3DGM concentration limit	100 percentile concentration limit
Conductivity	microsiemens per centimetre				400

### POINT 8

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

L2.5 In addition to the concentration limit specified against Point 5 in the table above, waste water must not be discharged from Point 5 if the conductivity of the waste water is greater than the conductivity of the receiving waters in the Hunter River at the time of discharge.

## 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
3	megalitres per day	100



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4	megalitres per day	130
5	megalitres per day	7
8	megalitres per day	200

## L4 Waste

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

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

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

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

Code	Waste	Description	Activity	Other Limits
NA	General solid waste (non-putrescible)	Biomix for the purpose of rehabilitation.	As specified in each particular resource recovery exemption	The licensee must comply with "The Biomix exemption June 2024".
NA	Garden waste	Application of pasteurised garden organics for mine rehabilitation.	As specified in each particular resource recovery exemption	The licensee must comply with "The pasteurised garden organics exemption 2016".
NA	Excavated natural material	Application of excavated natural material for use in mine rehabilitation	As specified in each particular resource recovery exemption	The licensee must comply with "The excavated natural material exemption 2014".
NA	Electric Arc Ladle Slag	Application of Gravel Grip 40 product for construction of laydown areas, access roads, build pads, carparks and hardstands.	As specified in each particular resource recovery exemption	The licensee must comply with "The processed electric arc furnace ladle slag exemption 2014".
NA	Electric Arc Furnace Slag	Application of Gravel Grip 40 product for construction of laydown areas, access roads, build pads, carparks and hardstands.	As specified in each particular resource recovery exemption	The licensee must comply with "The electric arc furnace slag exemption 2014".
NA	Compost (The compost exemption 2016-NSW EPA)	Application of compost as soil ameliorant for mine rehabilitation.	As specified in each particular resource recovery exemption	The licensee must comply with "The compost exemption 2016".
NA	Gypsum plaster board	Application of recovered plasterboard as soil ameliorant for mine	As specified in each particular resource recovery exemption	The licensee must comply with "The recovered



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rehabilitation	plasterboard exemption 2014".
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L4.2 The licensee must not dispose of any waste on the premises unless authorised to do so by a condition the licence.

## L5 Noise limits

L5.1 Noise generated at the premises must not exceed the noise limits presented in the table below.

Location	Day LAeq(15min)	Evening LAeq(15min)	Night LAeq(15min)	Night LA1(1min)
EPA Point 36 in NMG 1A			41	46
EPA Point 37 in NMG 1B			40	46
EPA Point 38 in NMG 1C			39	46
EPA Point 39 in NMG 2			37	46
EPA Point 40 in NMG 3			39	46
EPA Point 41 in NMG 4			39	46
EPA Point 42 in NMG 5			40	46
EPA Point 43 ini NMG 6			40	46
Residence 160 - Bowman in NMG 1A	41	41	41	45
Residence 256 - Moxey in NMG 1A	41	41	41	45
Residence 161 - Shearer in NMG 1A	41	41	41	45
Residence 162, 163, 258, 260 & 261 on Shearers Lane in NMG 1A	41	41	41	45
Residence 121 - Ernst in NMG 1B	40	40	40	45
Residence 123 - Nelson in NMG 1B	40	40	40	45

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Residence 120 - Clifton and Edwards in NMG 1B and residences within 250m of this residence, not otherwise listed in this table	40	40	40	45
Maison Dieu residences 244, 245, 246 & 247 in NMG 1C within 1km if Shearers Lane, not otherwise listed in this table	39	39	39	45
Residence 127 - Riley in NMG 2	37	37	37	45
All other Maison Dieu residences not listed in this table	35	35	35	45
Residence 323 - Bennett in NMG 4	40	40	40	46
Residence 322 - Nichols in NMG 4	40	40	40	46
Residence 308 - Cooper in NMG 4	39	39	39	46
Residence 310 - Northcote in NMG 4	39	39	39	45
Residence 311 - Elisnore in NMG 4	39	39	39	46
Residence 317 - Gee in NMG 4	39	39	39	46
Residence 434 - Murphy in NMG 4	39	39	39	46
Residence 436 - Skinner in NMG 4	39	39	39	46
Residence 321 - Hayes in NMG 4	40	40	40	46
Jerrys Plains Village and Jerrys Plains West residences 399, 379, 376, 378, 380-383, 387-409, 411, 413-415, 419-423, 362 - 375, 377, 384, 385, 417, 418, 424, 354, 339-353, 355-361, 334, 328, 329, 331-333, 335-338, 326, 327, 330, 437 & 438	40	40	40	46



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All Jerrys Plains Road residences not otherwise listed in this table	35	35	35	46
All other privately owned land in Warkworth Village	43	43	43	45
All other privately owned land	35	35	35	45

- L5.2 For the purposes of condition L5.1:
- a) Day is defined as the period from 7am to 6pm Monday to Saturday and 8am to 6pm Sundays and Public Holidays,
  - b) Evening is defined as the period from 6pm to 10pm, and
  - c) Night is defined as the period from 10pm to 7am Monday to Saturday and 10pm to 8am Sundays and Public Holidays
- L5.3 The noise limits set out in condition L5.1 apply under all meteorological conditions except for the following:
- a) Wind speeds greater than 3 metres/second at 10 metres above the ground level;
  - b) Stability category F temperature inversion conditions and wind speeds greater than 2 metres/second at 10 metres above ground level;
  - c) Stability category G temperature inversion conditions; or
  - d) During periods of rain or hail.
- L5.4 For the purposes of condition L5.3:
- a) Data recorded by the meteorological station installed on the premises at Point 19 or 22, which ever is more representative, must be used to determine meteorological conditions; and
  - b) Temperature inversion conditions (stability category) are to be determined by the methods referred to in Fact Sheet D of the Noise Policy for Industry (2017).
- L5.5 For the purposes of condition L5.1 noise limits and sensitive receiver numbers have been consolidated from HVO North DA 450-10-2003 Modification 7 dated July 2017, HVO South PA 06\_0261 Modification 5 dated 28 February 2018 and the report titled "*Hunter Valley Operations Noise Management Groups for Environment Protection Licence 640*" dated January 2020 Revision B prepared by Global Acoustics Pty Ltd (EPA Reference DOC20/126645-7).

## L6 Blasting

- L6.1 Blasting in or on the premises must only be carried out between 07:00 hours and 18:00 hours, Monday to Saturday. Blasting in or on the premises must not take place on Sundays or Public Holidays without lawful approval.
- L6.2 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 9, 11, 18 or 21.



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- L6.3 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 9, 11, 18 or 21.
- L6.4 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; at either Point 9, 11, 18 or 21.
- L6.5 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 9, 11, 18 or 21.
- L6.6 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.*

## L7 Potentially offensive odour

- L7.1 No condition of this licence identifies a potentially offensive odour for the purposes of section 129 of the Protection of the Environment Operations Act 1997.

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

## L8 Other limit conditions

### Ammonium Nitrate Emulsion Plant

- L8.1 The licensee must not produce more than 116,000 tonnes per annum of ammonium nitrate emulsion product

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at the premises.

## Ammonium Nitrate Storage Compound

- L8.2 The licensee must not store more than 7,250 tonnes of ammonium nitrate at the ammonium nitrate storage compound at the premises at any time and the ammonium nitrate must be stored in individual stockpiles not exceeding 250 tonnes.

## 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 System

- O2.2 The licensee is responsible for the correct operation of the sewage treatment system on the premises.
- O2.3 Correct operation involves regular supervision and system maintenance. The licensee must be aware of the 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 O2.4.
- O2.6 The licensee must prepare a sewage treatment system maintenance program. The program must include:
- a) Certification from the system provider 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

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- O3.1 The premises must be maintained in a condition which minimises or prevents the emission of dust from the premises.
- O3.2 Activities occurring in or on the premises must be carried out in a manner that will minimise the generation, or emission from the premises, of wind-blown or traffic generated dust.
- O3.3 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.
- O3.4 Trucks transporting coal from the premises must be covered immediately after loading to prevent wind blown emissions and spillage. The covering must be maintained until immediately before unloading the trucks.
- O3.5 The tailgates of all haulage trucks leaving the premises must be securely fixed prior to loading or immediately after unloading to prevent loss of material.

## O4 Effluent application to land

- O4.1 The licensee must ensure that the effluent discharge utilisation area perimeter is fenced and signposted and controlled in a manner to ensure exclusion of persons from that area.
- O4.2 The licensee must ensure that sprays or mists from irrigation do not drift beyond the boundary of the effluent discharge utilisation area and that no ponding occurs.
- O4.3 Application of wastewaters must only be applied at a rate that can be assimilated by the effluent discharge utilisation area and its evapotranspiration capacity.

## O5 Emergency response

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.

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## 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 heavy plant waste tyres at least 10m away from coarse reject material or tailings emplacement areas;
  - d) not place any heavy plant waste tyres near heated material;
  - e) not place any heavy plant waste tyres in an area likely to leach to any watercourse.

## O8 Other operating conditions

- O8.1 There must be no incineration or open burning of any material(s) on the premises, except as specifically authorised by the EPA.
- O8.2 The licensee is authorised to receive mine water at the premises from Liddell Coal Mine (as defined in Environment Protection Licence 2094), Wambo Coal Mine (as defined in Environment Protection Licence 529), Ravensworth Complex (as defined in Environment Protection Licence 2652) and Warkworth Coal Mine (as defined in Environment Protection Licence 1376), for storage and use in activities authorised by the licence.
- O8.3 The licensee is authorised to transfer saline mine water to United Collieries (as defined in Environment Protection Licence 3141), Liddell Coal Mine (as defined in Environment Protection Licence 2094), Wambo Coal Mine (as defined in Environment Protection Licence 529), Ravensworth Complex (as defined in Environment Protection Licence 2652) and Warkworth Coal Mine (as defined in Environment Protection Licence 1376).
- O8.4 The licensee is authorised to transfer coal tailings to the Ravensworth Complex (as defined in Environment Protection Licence 2652) and must comply with the Coal Washery Reject (Coal Mine Void) Resource Recovery Order 2014.

## 5 Monitoring and Recording Conditions

### M1 Monitoring records

- M1.1 The results of any monitoring required to be conducted by this licence or a load calculation protocol must be recorded and retained as set out in this condition.
- M1.2 All records required to be kept by this licence must be:
- a) in a legible form, or in a form that can readily be reduced to a legible form;



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- 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 13,15,16,17,44

Pollutant	Units of measure	Frequency	Sampling Method
PM10	micrograms per cubic metre	Continuous	AM-22

### M2.3 Water and/ or Land Monitoring Requirements

POINT 3,4

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

POINT 3,4,8

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



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**POINT 5**

Pollutant	Units of measure	Frequency	Sampling Method
Conductivity	microsiemens per centimetre	Special Frequency 1	Probe

**POINT 8**

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

**POINT 23,25,26,29**

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

**POINT 45,46,47,48,49,50,51,52,53,54**

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

**POINT 55**

Pollutant	Units of measure	Frequency	Sampling Method
Ammonia	milligrams per litre	Every 6 months	Grab sample
Nitrogen (total)	milligrams per litre	Every 6 months	Grab sample
Total petroleum hydrocarbons	milligrams per litre	Every 6 months	Grab sample

M2.4 For the purposes of the table(s) above Special Frequency 1 means the collection of samples at least every 10 minutes during discharge.

Note: The requirement for turbidity monitoring at Points 3, 4 and 8 will be reviewed by the EPA after review of data obtained during HRSTS discharge events.



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## M3 Testing methods - concentration limits

- M3.1 Monitoring for the concentration of a pollutant emitted to the air required to be conducted by this licence must be done in accordance with:
- a) any methodology which is required by or under the Act to be used for the testing of the concentration of the pollutant; or
  - b) if no such requirement is imposed by or under the Act, any methodology which a condition of this licence requires to be used for that testing; or
  - c) if no such requirement is imposed by or under the Act or by a condition of this licence, any methodology approved in writing by the EPA for the purposes of that testing prior to the testing taking place.

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.
- 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 ref. 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 ref. 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.

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## POINT 19,22

Parameter	Sampling method	Units of measure	Averaging period	Frequency
Siting	AM-1 & AM-4	-	-	-
Temperature at 10 metres	AM-4	degrees Celsius	10 minutes	Continuous
Relative humidity	AM-4	percent	10 minutes	Continuous
Rainfall	AM-4	millimetres per hour	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	AM-2 & AM-4	Degrees	10 minutes	Continuous
Total Solar Radiation	AM-4	Watts per square metre	10 minutes	Continuous

## 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.
- 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.





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## 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 3

Frequency	Unit of Measure	Sampling Method
Continuous during discharge	megalitres per day	Flow meter and continuous logger

### POINT 4

Frequency	Unit of Measure	Sampling Method
Continuous during discharge	megalitres per day	Weir structure and level sensor

### POINT 5

Frequency	Unit of Measure	Sampling Method
Special Frequency 1	megalitres per day	Special Method 1

### POINT 8

Frequency	Unit of Measure	Sampling Method
Continuous during discharge	megalitres per day	Flow meter and continuous logger

- M7.2 For the purpose of the table(s) above:
- Special Frequency 1 means at least once every 10 minutes during discharge.

Special Method 1 means a method approved in writing by the EPA.

## M8 Blasting

- M8.1 To determine compliance with conditions L6.2, L6.3, L6.4 and L6.5:
- a) Airblast overpressure and ground vibration levels must be measured and electronically recorded for Points 9, 11, 18 and 21 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



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## M9 Other monitoring and recording conditions

### HRSTS Monitoring

- M9.1 The licensee must continuously operate and maintain communication equipment which makes the conductivity and flow measurements, taken at Points 3, 4 and 8 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 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 Points 3, 4 and 8 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 PM<sub>10</sub> concentration at Points 13, 15, 16 17 and 44 at intervals of 10 minutes. This data must be made available upon request by any authorised officer of the EPA who asks to see them.

## M10 Noise monitoring

- M10.1 To assess compliance with the noise limits specified within this licence, the licensee must undertake operator attended noise monitoring at each specified noise monitoring point in accordance with the table below.

### POINT 36,37,38,39,40,41,42,43

Assessment period	Minimum frequency in a reporting period	Minimum duration within assessment period	Minimum number of assessment period
Night	Monthly	15 minutes	1 operation day

- M10.2 To assess compliance with condition L5.1, attended noise monitoring must be undertaken in accordance with conditions L5.2 to L5.4:
- a) at Points 36, 37, 38, 39, 40 ,41 ,42 and 43 identified in condition P1.4; and
  - b) occur every calendar month in a reporting period; and
  - c) occur during one night time period as defined in the Noise Policy for Industry (2017) for a minimum of 15 minutes at each location from a).

- M10.3 Where required in writing by the EPA, the licensee must carry out attended monitoring at any sensitive

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receivers referred to in condition L5.1 in addition to the monitoring required by condition M10.1.

## 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 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.

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- 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

- 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.

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

## R3 Written report

- R3.1 Where an authorised officer of the EPA suspects on reasonable grounds that:
- a) where this licence applies to premises, an event has occurred at the premises; or
  - b) where this licence applies to vehicles or mobile plant, an event has occurred in connection with the carrying out of the activities authorised by this licence, and the event has caused, is causing or is likely to cause material harm to the environment (whether the harm occurs on or off premises to which the licence applies), the authorised officer may request a written report of the event.
- R3.2 The licensee must make all reasonable inquiries in relation to the event and supply the report to the EPA within such time as may be specified in the request.
- R3.3 The request may require a report which includes any or all of the following information:
- a) the cause, time and duration of the event;
  - b) the type, volume and concentration of every pollutant discharged as a result of the event;
  - c) the name, address and business hours telephone number of employees or agents of the licensee, or a specified class of them, who witnessed the event;
  - d) the name, address and business hours telephone number of every other person (of whom the licensee is aware) who witnessed the event, unless the licensee has been unable to obtain that information after making reasonable effort;
  - e) action taken by the licensee in relation to the event, including any follow-up contact with any complainants;
  - f) details of any measure taken or proposed to be taken to prevent or mitigate against a recurrence of such an event; and
  - g) any other relevant matters.
- R3.4 The EPA may make a written request for further details in relation to any of the above matters if it is not satisfied with the report provided by the licensee. The licensee must provide such further details to the EPA within the time specified in the request.

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## **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 within seven days of the date of the notification.

### **Blast Exceedance Notification and Reporting**

- R4.3 The licensee must report any exceedance of licence blasting limits to the EPA by telephoning the Environment Line service on 131 555 or emailing [info@epa.nsw.gov.au](mailto: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.
- R4.4 Within seven days of notifying the EPA of an exceedance of licence blast limits, the licensee must provide the EPA a report in writing that explains the cause of the exceedance and the actions taken to prevent future exceedances of blast limits.

### **Noise Exceedance Notification and Reporting**

- R4.5 The licensee must report any exceedance of licence noise limits to the EPA by telephoning the Environment Line service on 131 555 or emailing [info@epa.nsw.gov.au](mailto: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.
- R4.6 Within seven days of notifying the EPA of an exceedance of licence noise limits, the licensee must provide the EPA a report in writing that explains the cause of the exceedance and the actions taken to prevent future exceedances of noise limits.
- R4.7 An authorised officer of 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 at condition R4.6. The licensee must provide such further details to the EPA within the time specified in the request.

## **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](mailto: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.

### **Turbidity Report**

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- R5.2 The licensee must provide a report to the EPA with the Annual Return that shows graphical analysis of continuous turbidity against continuous discharge volume measured at Points 3 and 4 for the length of any discharges from Points 3 and 4.

## Blast Monitoring Report

- R5.3 The results of the blast monitoring required by the licence must be submitted to the EPA, with each Annual Return, at the end of each reporting period. The monitoring results must identify any exceedance of licence limits.

## Noise Monitoring Report

- R5.4 The licensee must provide an annual noise compliance assessment report to the EPA with each Annual Return. The report must be prepared by an appropriately qualified acoustic consultant and include an assessment of any exceedance of noise limits and justification that the noise monitoring points identified in condition P1.4 are still representative of the sensitive receivers within the noise monitoring groups.

## Sewage Treatment Systems

- R5.5 The sewage treatment system maintenance program required by condition O2.6 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 O2.5 for 3 years from the date each record is made.

## Heavy Plant Tyre Disposal Report

- R5.7 The licensee must provide the EPA with an Annual Heavy Plant Waste Tyre Disposal Report. The Report must be submitted with the Annual Return each year and 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) Date the tyre was delivered to site;
  - (iv) Date that the tyre was disposed;
  - (v) Co-ordinates (eastings and northings) of the location of each tyre emplacement burial extent;
  - (vi) The Reduced Level (RL), in metres AHD, of each tyre disposed;
  - (vii) The number of tyres buried in each emplacement location; and
  - (viii) The total number, and tonnage, of tyres disposed at the premises in each reporting period.

## Water Quality Monitoring Report

- R5.8 The licensee must provide an annual water quality monitoring report to the EPA with each Annual Return. The report must be prepared by an appropriately qualified and experienced person and include 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;



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- (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

### 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
Saline Discharge Dispersion Investigation	Saline Discharge Dispersion Investigation. Minimise risk of saline discharge to downstream irrigators.	18-June-2008
High Level Alarm and Interlocks - Dam 17N and associated water management system	Install and operate High Level Alarm and interlock on water management systems associated with Dam 17N . Upgraded system will allow for the better management of mine water and prevent unauthorised discharges to local creek system.	29-April-2011
Coal Mine Particulate Matter Control Best Practice	Requires licensee to conduct a site specific Best Management Practice (BMP) determination to identify ways to reduce particle emissions.	13-July-2012
Particulate Matter Control Best Practice Implementation – Wheel Generated Dust	Implementation of particulate matter best management practices to address wheel-generated dust.	15-August-2014



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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.	30-July-2014
Coal Mine Wind Erosion of Exposed Land Assessment (PRS 8)	Assessment of predicted vs actual exposed lands	31-March-2015
PRS 9 - North Void Tailings Facility Seepage Study	Investigation into the North Void Tailings Facility Groundwater Seepage (30 March 2020 has been completed) and Options Report to mitigate and manage environmental impacts (30 Nov 2019 has been completed). Ongoing annual pollution study requirements - into perpetuity until the issues has been mitigated	30-March-2020
PRS 10 - Water Management Infrastructure Upgrade Assessment and Report	Audit of water management infrastructure and Reporting	27-September-2019
PRP 11 - Newdell Load Point Water Containment Upgrade	Upgrades to Newdell Load Point Water Management system to mitigate overflows from water storages and pipe leakages	28-March-2024
PRP 12 - Hunter Valley Load Point Water Containment Upgrade (PRP 12)	Upgrades to the Hunter Valley Load Point water management system to mitigate overflows from water storages and pipe leakages	28-March-2024
PRP 15 - Dam 15N Upgrades	Design, install and commission upgrades to Dam15N to mitigate overflows to Farrells Creek.	17-June-2024

## 8 Pollution Studies and Reduction Programs

### U1 PRP 13 - North Void Tailings Storage Facility Barrier Wall

U1.1 The licensee must engage an appropriately qualified and experienced person to design a barrier wall in respect of the North Void Tailings Storage Facility (TSF) to prevent or mitigate saline and sulfate seepage from the TSF to groundwater during the continued life of the mine, remediation and after capping. The design and assessment must be completed by 31 March 2026 and must:

- i) be consistent with the recommendations of the "*North Void Tailings Storage Facility, Barrier Wall Construction Feasibility Assessment PS122997-CIV-LTR-002 Rev A dated 25 June 2021*" by WSP;
- ii) be keyed into bedrock; and
- iii) be of sufficient height and depth to prevent or mitigate saline and sulfate seepage from the TSF to groundwater during continued life of mine, remediation and after capping.



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Note: The intention of this barrier wall is to prevent the pollution of waters.

- U1.2 By 2 July 2027, the licensee must construct the North Void TSF and provide a report to the EPA detailing the works installed and complete and includes an assessment of the permeability of the wall (North Void TSF Completion Report). The North Void TSF Completion Report must be provided by email to [info@epa.nsw.gov.au](mailto:info@epa.nsw.gov.au).

Note: This timeline is dependent upon engineering assessments and approvals, with approvals the responsibility of the licensee.

## U2 PRS 14 - Lake James Dam Saline Mixing Investigation

- U2.1 As part of the increase to the licensed discharge volume limit from 120 ML/day to 200 ML/day at Point 8 (being the Lake James Dam HRSTS discharge point), the licensee must undertake conductivity sampling during the next discharge event which exceeds 120 ML/day at the nearest downstream sampling location - coordinates 316696 6398312 (easting and northing).

Note: The intent is to demonstrate adequate mixing of salts to achieve a downstream water quality less than 900 uS/cm.

The licensee must provide a report with monitoring results to the EPA by email to [info@epa.nsw.gov.au](mailto:info@epa.nsw.gov.au).

## U3 PRP 16 - Hunter River Bridge Upgrade Works

- U3.1 a) By 30 June 2026, the licensee must design, install and commission upgrades to the existing Hunter River Bridge pollution control infrastructure. The works are to be guided by the report titled "HV Operations Pty Ltd Water Management Infrastructure Upgrade Assessment Hunter Valley Operations", prepared by Engeny, dated September 2019.
- b) Within one week of completing the works required above, the licensee must notify the EPA in writing of the completed works. Notification must be provided by email to [info@epa.nsw.gov.au](mailto:info@epa.nsw.gov.au).

## 9 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 clause 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.

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- 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.

## E2 North Void Tailings Facility Seepage Monitoring

- E2.1 The licensee must implement a North Void Tailings Facility monitoring program. This monitoring program must be implemented and undertaken by a suitably qualified and experienced person. The program must include:
- (i) installation of a groundwater and surface water monitoring network to monitor the extent of the plume of polluted water to estimate the volume of seepage from the North Void Tailings Facility and the flux of salt and sulphate difference from baseline alluvial groundwater and to monitor seepage changes;
  - (ii) a groundwater surface water model to demonstrate attenuation time and mixing if the polluted groundwater is not remediated;
  - (iii) development of milestones or thresholds that would trigger consideration for the introduction of works or other options to mitigate seepage from the North Void Tailings Facility;
  - (iv) an ecological risk assessment;
  - (v) an assessment of tailings consolidation, permeability and strength testing;
  - (vi) likely timeframes involved for filling, capping and rehabilitating of the North Void Tailings Facility;
  - (vii) daily rainfall;
  - (viii) estimates of rainfall ingress into the North Void Tailings Facility; and
  - (ix) volumetric monitoring of the decant of surface waters from the North Void Tailings Facility.

The licensee must provide an analysis report of this monitoring data and any modelling prepared by an appropriately qualified and experienced person. The licensee must submit this report to the EPA by 30 March 2020 and annually thereafter. The report must demonstrate progress in mitigating seepage from the North Void Tailings Facility. The report must report against the following objectives:

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- a) prevent pollution of waters at all times;
- b) mitigate degradation of groundwater beneficial use;
- c) prevent impact to endangered ecological communities; and
- d) capping and rehabilitation to produce a free draining final landform.

E2.2 The licensee must submit an interim report to the EPA at each quarter, within one month of the completion of quarterly monitoring. The interim report must be prepared by an appropriately qualified and experienced person and include:

- a) an assessment of rainfall data for the quarterly period;
- b) an estimate of rainfall ingress to the North Void Tailings Facility for the quarterly period; and
- c) the volume of decant water removed from the North Void Tailings Facility in the quarterly period.



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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 Mitchell Bennett

Environment Protection Authority

(By Delegation)

Date of this edition: 29-September-2000

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## End Notes

- 1 Licence varied by notice 1003056, issued on 06-Dec-2000, which came into effect on 31-Dec-2000.
- 2 Licence transferred through application 140323, approved on 17-Apr-2001, which came into effect on 01-Apr-2001.
- 3 Licence varied by notice 1013521, issued on 07-Dec-2001, which came into effect on 01-Jan-2002.
- 4 Licence varied by Change of Contact details, issued on 07-Feb-2002, which came into effect on 07-Feb-2002.
- 5 Licence varied by notice 1024752, issued on 27-Feb-2003, which came into effect on 27-Feb-2003.
- 6 Licence varied by notice 1026218, issued on 31-Mar-2003, which came into effect on 31-Mar-2003.
- 7 Licence varied by notice 1033325, issued on 22-Jan-2004, which came into effect on 23-Jan-2004.
- 8 Licence transferred through application 142538, approved on 05-Apr-2004, which came into effect on 01-Apr-2004.
- 9 Licence varied by notice 1040579, issued on 16-Nov-2004, which came into effect on 11-Dec-2004.
- 10 Licence varied by notice 1044536, issued on 18-Mar-2005, which came into effect on 07-Apr-2005.
- 11 Licence varied by correction to EPA object data record, issued on 15-Jun-2005, which came into effect on 15-Jun-2005.
- 12 Licence varied by notice 1058366, issued on 18-May-2006, which came into effect on 18-May-2006.
- 13 Licence varied by Internal Testing Only - No Changes, issued on 15-Jun-2007, which came into effect on 15-Jun-2007.
- 14 Licence varied by notice 1074619, issued on 26-Jun-2007, which came into effect on 26-Jun-2007.
- 15 Licence varied by notice 1088104, issued on 18-Jun-2008, which came into effect on 18-Jun-2008.
- 16 Condition A1.3 Not applicable varied by notice issued on <issue date> which came into effect on <effective date>
- 17 Licence varied by notice 1104190, issued on 26-Nov-2009, which came into effect on 26-Nov-2009.
- 18 Licence varied by notice 1110518, issued on 08-Jan-2010, which came into effect on 08-Jan-2010.

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19	Licence varied by notice 1122039, issued on 21-Dec-2010, which came into effect on 21-Dec-2010.
20	Licence varied by notice 1501227 issued on 08-Dec-2011
21	Licence varied by notice 1505777 issued on 21-May-2012
22	Licence varied by notice 1506486 issued on 30-Nov-2012
23	Licence varied by notice 1510522 issued on 21-Mar-2013
24	Licence varied by notice 1513861 issued on 24-May-2013
25	Licence varied by notice 1516195 issued on 05-Sep-2013
26	Licence varied by notice 1517166 issued on 13-Dec-2013
27	Licence varied by notice 1522185 issued on 16-Oct-2014
28	Licence varied by notice 1526186 issued on 24-Feb-2015
29	Licence varied by notice 1529862 issued on 13-Apr-2015
30	Licence varied by notice 1530433 issued on 12-Jun-2015
31	Licence varied by notice 1533166 issued on 20-Aug-2015
32	Licence transferred through application 1536756 approved on 04-Jan-2016 , which came into effect on 30-Dec-2015
33	Licence transferred through application 1537115 approved on 12-Jan-2016 , which came into effect on 31-Dec-2015
34	Licence transferred through application 1538331 approved on 23-Feb-2016 , which came into effect on 24-Feb-2016
35	Licence varied by notice 1543170 issued on 23-Aug-2016
36	Licence varied by notice 1544314 issued on 05-Sep-2016
37	Licence varied by notice 1545411 issued on 11-Oct-2016
38	Licence varied by notice 1549584 issued on 29-Mar-2017
39	Licence varied by notice 1553538 issued on 16-Aug-2017
40	Licence varied by notice 1570164 issued on 18-Oct-2018
41	Licence varied by notice 1576904 issued on 26-Apr-2019
42	Licence varied by notice 1578894 issued on 01-May-2019
43	Licence varied by notice 1581234 issued on 16-Aug-2019
44	Licence varied by notice 1587261 issued on 10-Sep-2020
45	Licence varied by notice 1606318 issued on 31-Mar-2021





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46	Licence varied by notice	1610755 issued on 22-Jul-2021
47	Licence varied by notice	1612153 issued on 05-Oct-2021
48	Licence varied by notice	1614146 issued on 14-Dec-2021
49	Licence varied by notice	1615543 issued on 04-Mar-2022
50	Licence varied by notice	1625173 issued on 30-May-2023
51	Licence varied by notice	1648028 issued on 01-Jul-2025