

# WAMBO COAL BLAST MANAGEMENT PLAN

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Blast Management Plan



## **Document Control**

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# Revisions

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5	Oct 2015	Revision	WCPL, Palaris	SP	
6	Nov 2015	Update to address DP&E comments on Rev 5	WCPL, Palaris	SP	
7	July 2017	Update to include the Road Closure Management Procedure	WCPL	SP	
8	December 2017	Update to include new Peabody logo, Notification Procedure for Blasting within 500m of Private Property and Road Occupancy Licence renewal.	WCPL	SP	
9	April 2019	Renewal of Road Occupancy Licence and Crown Lands Access Agreement. No changes to content.	WCPL	ND	
10	November 2019	Updated to address changes to DA305-7-2003 (Mod 16), DA177-8-2004 (Mod 3) and EPL 529 (19/7/19 version)	WCPL	Jeff Hanlon WCPL	
11	March 2020	Update of BM05 blast monitor location	WCPL	Jeff Hanlon WCPL	



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# 1.0 Introduction

### 1.1 Background

The Wambo Coal Mine (the Mine) is situated approximately 15 kilometres west of Singleton, near the village of Warkworth, New South Wales (**Figure 1**). Wambo is owned and operated by Wambo Coal Pty Limited (WCPL), a subsidiary of Peabody Energy Australia Pty Limited.

A range of open cut and underground mine operations have been conducted at WCPL since mining operations commenced in 1969. Mining under the current Development Consent (DA305-7-2003) commenced in 2004 and permits both open cut, underground operations and associated activities to be conducted. The latest modification to DA305-7-2003 (Mod 16), approved by the Independent Planning Commission of NSW on 29 August 2019, requires development at Wambo Coal Mine to be undertaken in the following stages:

- Phase 1 open cut mining operations at Wambo open cut mine, underground mining operations at Wambo underground mine and the operation of Wambo mine infrastructure (including minor upgrades to this infrastructure) within the green operational area identified in Figure 1 of Appendix 2
- Phase 2 underground mining operations at Wambo underground mine, the operation of Wambo mine infrastructure within the green operational area identified in Figure 2 of Appendix 2 and associated surface development
- Phase 3 following the cessation of underground mining operations that includes mine closure.

The operation of WCPL's rail and coal loading infrastructure is undertaken in accordance with DA177-8-2204. The latest modification to DA177-8-2004 (Mod 3) was approved by the Independent Planning Commission of NSW on 29 August 2019.

The approved run-of-mine (ROM) coal production rate is 14.7 million tonnes per annum and all product coal is transported from WCPL by rail, in accordance with the development consents. A summary of the approved Wambo Coal Mine is provided in **Table 1**.

Component	Approved Wambo Coal Mine <sup>1</sup>
Open Cut Mining	Phase 1 – A maximum of 8 Mt of ROM coal may be extracted from the Wambo open cut mine in a calendar year
	Phase 2 – ROM coal from the Wambo open cut mine may be received, processed and/or stockpiled onsite. No open cut mining may take place during Phase 2.
	Open cut mining operations under current approved MOP
Underground Mining	Phase 1 and 2 - A maximum of 9.75 Mt of ROM coal may be extracted from the Wambo underground mine in a calendar year
	Underground mining operations within the approved mine plan until 31 August 2042
Subsidence commitments and management.	The subsidence performance measures listed in Conditions B1-B10 of the Development Consent (DA305-7-2003).

Table 1: Summary of the Approved Wambo Coal Mine



Component	Approved Wambo Coal Mine <sup>1</sup>
ROM Coal Production Rate	Up to 14.7 Mt of ROM coal from the Wambo Mining Complex and United Wambo open cut coal mine in a calendar year
Waste Rock Management	Waste rock deposited in open cut voids and in waste rock emplacements adjacent open cut operations
	Overburden may be transferred to the United open cut mine for emplacement during Phase 2.
Coal Washing	Coal handling and preparation plant (CHPP) capable of processing approximately 1,800 tonnes per hour (tph)
Coal transportation	A maximum of 15 Mt of coal transported from the United Wambo Mining Complex in a calendar year
	A maximum of 8 laden trains may leave site in any 24hr period
	Coal transportation may be carried out until 31 August 2042.
CHPP Reject Management	Coarse rejects and tailings would be incorporated, encapsulated and/or capped within open cut voids in accordance with existing Wambo management practices
	Coal rejects may be transferred to the United open cut mine for emplacement during Phase 2.
Water Supply	Make-up water demand to be met from runoff recovered from tailings storage areas, operational areas, dewatering, licensed extraction from Wollombi Brook and Hunter River
Mining Tenements	Coal Lease (CL) 365, CL374, CL397, Consolidated Coal Lease (CCL) 743, Mining Lease (ML) 1402, ML1572, ML1594, Authorisation (A) 444, Exploration Licence (EL) 7211.

Note: <sup>1</sup> Development Consents DA305-7-2003 and DA177-8-2004 (as modified August 2019)

In accordance with Condition B38 of DA305-7-2003, WCPL are required to prepare a Blast Management Plan (BMP). In accordance with WCPL's continuous improvement and review processes and Condition D6 of DA305-7-2003, a review of the BMP has been undertaken to ensure that blasting activities at the Mine continue to be undertaken in a manner that ensures compliance and reduces impacts on the local community. This review has been undertaken by suitably qualified and experienced persons in consultation with the EPA (refer to **Appendix A**).

### 1.2 Purpose

The purpose of this BMP is to ensure that WCPL blast related impacts, including ground vibration, overpressure, fume and dust are minimised on the local community, infrastructure and heritage sites to the extent required by DA305-7-2003 and Environmental Protection Licence (EPL 529). This BMP has been developed to:

- Describe the measures to be implemented to comply with the relevant blast conditions;
- Describe the blast management strategies used to manage impacts from blasting;
- Provide a blast monitoring protocol for evaluating compliance with the blast criteria;
- Describe WCPL's Blast Fume Management Strategy (Appendix B);
- Provide a protocol for managing and reporting any blast related incidents, exceedances or non-compliances;
- Communicate with the local community and regulators regarding WCPL's blasting activities;

Blast Management Plan



- Describe and assign responsibilities relating to blast management at WCPL;
- Describe the road closure management procedure for blasting within 500 metres of the Golden Highway (Appendix D); and
- Describe how this BMP will be reviewed and updated.

# 1.3 Scope

This BMP applies to all blasting activities undertaken within WCPL's mining authorisations and approved mining areas (**Figure 2**). This BMP has been prepared to manage blast related impacts including overpressure, ground vibration, dust, and blast fume in accordance with the Blast Fume Management Strategy. This BMP forms part of WCPL's Environmental Management System (EMS) and provides a consistent process for notification and reporting in accordance with the Pollution Incident Response Management Plan (PIRMP).





Figure 1: Wambo Coal Regional Location





#### WCPL Owned Land

Mining and Coal Lease Boundary

Mining Lease Application Boundary Existing/Approved Surface Development Area Approved Underground Development

Remnant Woodland Enhancement Program (RWEP) Area

Source: Department of Lands (2017); WCPL (2019) Orthophoto: WCPL (May 2017)

Peabody WAMBO COAL MINE Approved Wambo Coal Mine Layout

WAM-09-15\_SBX\_EP\_Wkg Dwg\_Approved Wambo Coal Mine Layout\_Rev B 20/11/2019

Figure 2: Approved Wambo Coal Mine Layout



## **1.4 Statutory Requirements**

This BMP has been prepared to fulfil the requirements of DA305-7-2003 and EPL529, as well as commitments from the *United Wambo Open Cut Coal Mine Project Environmental Assessment* (Umwelt, 2016).

### 1.4.1 Environmental Planning & Assessment Act 1979

WCPL received Development Consent (DA305-7-2003), in accordance with the *Environmental Planning & Assessment Act 1979* (EP&A Act), from the NSW Department of Planning, Industry and Environment (DPIE), formerly NSW Department of Planning and Infrastructure (DP&I), on 4 February 2004. The most recent modification to DA305-7-2003 was granted by the Independent Planning Commission of NSW on 29 August 2019 (Mod 16). Conditions within the modified DA305-7-2003 regulate blasting activities undertaken at the Mine (**Table 2**).

In addition to the relevant conditions in DA305-7-2003, WCPL has also made a number of commitments relating to blasting in the following documents:

- United Wambo Open Cut Coal Mine Project Environmental Impact Statement (Umwelt, 2016); and
- United Wambo Open Cut Coal Mine Project Blasting Impact Assessment (Enviro Strata Consulting, 2016).

These commitments are summarised in **Table 3**.

#### 1.4.2 Protection of the Environment Operations Act 1997

WCPL operates under Environmental Protection Licence 529 (EPL 529), issued by the NSW Office of Environment & Heritage (OEH) under the authority of the *Protection of the Environment Operations Act 1997*. Conditions within EPL529 regulate blasting activities undertaken at the Mine (**Table 4**) EPL 529 is administered by the NSW Environmental Protection Authority (EPA).

A Pollution Incident Response Management Plan (PIRMP) has been prepared by WCPL, as holder of EPL 529 in accordance with Part 5.7A of the *Protection of the Environment Operations Act* 1997 (POEO Act) and Part 3A of *the Protection of the Environment Operations (General) Regulation 2009 (Regulation)*. For more information regarding WCPL's protocol for reporting environmental incidents please refer to **Section 9.5**.

Blast Management Plan



#### Table 2: DA305-7-2003 Requirements for the BMP

Schedule/ Part	Condition			DA305	j-7-2003	BMP Section
В	B22	Blasting Criteria The Applicant must ensure that blasting on the site does not cause exceedances of the Criteria in Table 5.				Sections 3.1 and 3.2
		Location	Airblast overpressure (dB(Lin Peak))	Ground vibration (mm/s)	Allowable exceedance	
		Residence on	120	10	0%	
		land	115	5	5% of the total number of blasts over a calendar year	
		Wambo Homestead	120	5	0%	
		All other heritage items	133	5	0%	
		Prescribed dams		50 <sup>1</sup>	0%	
		Public roads		100	0%	
		All other public infrastructure		50 <sup>2</sup>	0%	
		Notes:				
		1. Unless otherwis	se directed by the DSC.			
	2. Or a limi alternativ	2. Or a limit dete alternative limi	t determined by the structural design methodology in AS2187.2-2006, or its latest version, or other e limit for public infrastructures, to the satisfaction of the Planning Secretary.			
В	B23	The blasting criteria in Table 5 do not apply if the Applicant has an agreement with the owner/s of the relevant residence or infrastructure to exceed the blasting criteria, and the Applicant has advised the Department in writing of the terms of this agreement.			Section 3.2	
В	B24	Blasting Hours The Applicant must only carry out blasting on the site between 9 am and 5 pm (Monday to Saturday inclusive). No blasting is allowed on Sundays, public holidays or any other time without the prior written approval of the Planning Secretary.			Section 4.1	
В	B25	Blasting Frequency	rv out a maximum of:			Section 4.2



Schedule/ Part	Condition	DA305-7-2003	
		<ul> <li>a) 3 single blast events<sup>a</sup> a day; and</li> <li>b) 15 single blast events<sup>a</sup> a week, averaged over a calendar year.</li> </ul>	
В	B26	Condition B25 does not apply to single blast events <sup>a</sup> that generate ground vibration of 0.5 mm/s or less at any residence on privately-owned land, or to blast misfires or blasts required to ensure the safety of the mine, its workers or the general public. <sup>a</sup> Within conditions B25 and B26, 'single blast event' means a blast which involves either a single detonation or a number of individual blasts fired in quick succession in a discrete area of the development. Should an additional blast be required after a blast misfire, this additional blast and the blast misfire are counted as a single blast event.	Section 4.2
В	B27	<ul> <li>Property Investigations</li> <li>If the owner of any privately-owned land within 2 km radius of the site or any other landowner where the Planning Secretary is satisfied an investigation is warranted, claims in writing that buildings or structures on their land have been damaged as a result of blasting on the site, then within 2 months of receiving this written claim the Applicant must:         <ul> <li>a) commission a suitably qualified, experienced and independent person, whose appointment is acceptable to both parties to investigate the claim; and</li> <li>b) give the landowner a copy of the property investigation report.</li> </ul> </li> </ul>	Section 5.3
В	B28	If this independent property investigation confirms the landowner's claim, and both parties agree with these findings, then the Applicant must repair the damage to the satisfaction of the Planning Secretary.	
В	B29	If there is a dispute over the selection of the suitably qualified, experienced and independent person, or the Applicant or the landowner disagrees with the findings of the independent property investigation, then either party may refer the matter to the Planning Secretary for resolution.	
В	B30	<ul> <li>Blast Operating Conditions The Applicant must: <ul> <li>a) take all reasonable steps to:</li> <li>i) ensure the safety of people and livestock from blasting impacts of the development;</li> <li>ii) protect public and private infrastructure and property in the vicinity of the site from blasting damage associated with the development; and <li>iii) minimise the dust and fume emissions of any blasting;</li> </li></ul></li></ul>	Sections 4.3 and 5.0. See also Appendix B (Blast Fume Management Strategy) and Appendix D (Road Closure Management Procedure)



Schedule/ Part	Condition	DA305-7-2003			
		<ul> <li>ensure that blasting on the site does not damage heritage items, and develop specific measures to protect heritage items from any blasting damage associated with the development;</li> </ul>	Section 5.10		
		<ul> <li>c) minimise the frequency and duration of any public road closures for blasting, and use all reasonable efforts to avoid road closures during peak traffic periods;</li> </ul>	Section 4.3 and Appendix D		
		<ul> <li>d) operate a suitable system to enable interested members of the public to get up-to-date information on the proposed blasting schedule on the site and associated public road closures, including notification via SMS message of the blasting schedule and associated road closures for that day and any variations to that schedule and closures;</li> </ul>	Section 5.2		
		e) use all reasonable efforts to co-ordinate the timing of blasting at the site with nearby to minimise cumulative blasting impacts; and	Section 5.1		
		<ul> <li>f) carry out regular blast monitoring to determine whether the development is complying with the relevant conditions of this consent.</li> </ul>	Section 6.0		
В	B31	The Applicant must not carry out more than 1 blast a day within 500 metres of Wallaby Scrub Road or the Golden Highway.	Section 4.2		
В	B32	The Applicant must not undertake blasting on the site within 500 metres of any public road or any land outside the site not owned by the Applicant, unless the blast generates ground vibration of 0.5 mm/s or less, or the Applicant has:	Section 4.3		
		<ul> <li>a written agreement with the relevant infrastructure owner or landowner to allow blasting to be carried out closer to the public road or land, and the Applicant has advised the Department in writing of the terms of this agreement, or</li> </ul>			
		b) demonstrated, to the satisfaction of the Planning Secretary, that the blasting can be carried out closer to the public road or land without compromising the safety of people or livestock or damaging the road or other buildings and structures, and updated the Blast Management Plan to include specific mitigation measures to be implemented while blasting is being carried out within 500 metres of the road or land.			
В	B33	Wambo Homestead Ground vibration and air blast levels are to be monitored, using a monitoring station established within the Wambo Homestead Complex, and recorded for each blast conducted by the Applicant within 2 km of the Wambo Homestead Complex.	Sections 5.10.2 and 6.2		
В	B34	The Applicant must appoint a structural engineer with expertise and experience in vibration and blast monitoring to examine all monitoring records from the Wambo Homestead Complex blast monitoring station. The appointment of the structural engineer is to be approved in writing by the Heritage Branch.			



Schedule/ Part	Condition	DA305-7-2003	BMP Section
В	B35	The structural engineer is to report to the Applicant on the monitoring results each month for blasting within 2 km of the Wambo Homestead Complex and 6 monthly for the remainder of open cut mining operations and make recommendations to ensure the conservation and prevention of damage to the significant heritage structures. Copies of these reports are to be forwarded to the Heritage Branch.	Section 5.10.2
В	B36	The structural engineer is to inspect the Wambo Homestead Complex structures annually and as soon as practical, but no later than 3 days after blast monitoring which exceeds the criteria in Table 5. During the period between blast monitoring being recorded which exceeds the criteria in Table 5 and the engineer's inspection, ground vibration from blasting is to be limited to a level which will prevent further blasting damage. The structural engineer is to advise the Applicant and the Heritage Branch of any action required to repair the damage.	Section 5.10.2
В	B37	The structural engineer is to make an assessment of whether blasting within 2km of the Wambo Homestead Complex is to cease or be managed in order to stabilise or repair the damage, and so advise the Applicant and the Heritage Branch. If blasting has been required to cease, it is not to resume until the damage has been stabilised or repaired, and the written approval for resumption has been issued by the Heritage Branch.	Section 5.10.2
В	B38	Blast Management Plan         The Applicant must prepare a Blast Management Plan for the development to the satisfaction of the Planning Secretary. This plan must: <ul> <li>a) be prepared by a suitably qualified and experienced person/s;</li> <li>a) be prepared in consultation with the EPA;</li> </ul>	Section 1.1 and Appendix A Section 1.1 and Appendix A
		<ul> <li>b) describe the measures that would be implemented to ensure compliance with the blasting criteria and conditions of this consent;</li> </ul>	Section 5.0
		<ul> <li>c) include a Blast Fume Management Strategy for:         <ol> <li>minimising blast fume emissions;</li> <li>rating and recording blast fume events; and</li> <li>reporting significant blast fume events to the Department;</li> </ol> </li> </ul>	Appendix B
		<ul> <li>d) include a Road Closure Management Plan for any blasting within 500 metres of a public road, that has been prepared in consultation with relevant roads authorities and includes provisions for:         <ul> <li>i) minimising the duration of closures, both on a per event basis and weekly basis;</li> <li>ii) avoiding peak traffic periods as far as reasonable; and</li> <li>iii) co-ordinating closures with nearby mines to minimise the cumulative effect of road closures;</li> </ul> </li> </ul>	Appendix D
		e) identify any agreed alternative ground vibration limits for public or private infrastructure in the vicinity of the site (if relevant);	Not relevant



Schedule/ Part	Condition	DA305-7-2003	BMP Section
		f) include a strategy to manage potential blast interactions with nearby mines;	Section 5.1
		g) include a strategy to monitor, mitigate and manage the effects of blasting on heritage items, particularly the Wambo Homestead; and	Sections 5.10.2 and 6.0
		h) include a monitoring program for evaluating and reporting on compliance with the relevant conditions of this consent.	Sections 6.0 & 9.0
В	B39	The Applicant must submit the Blast Management Plan to the Planning Secretary for approval within three months of the determination of Modification 16.	This Plan
В	B40	The Applicant must implement the Blast Management Plan as approved by the Planning Secretary.	This Plan
С	C5	<b>Notification of Exceedances</b> As soon as practicable and no longer than 7 days after obtaining monitoring results showing an exceedance of any noise, blasting or air quality criterion in Part B of this consent, the Applicant must provide the details of the exceedance to any affected landowners, tenants and the CCC.	Section 9.5
С	C7	Independent Review If a landowner considers the development to be exceeding any relevant air quality, noise or blasting criterion in Part B of this consent, then they may ask the Planning Secretary in writing for an independent review of the impacts of the development on their residence or land	Section 5.3
С	C8	If the Planning Secretary is not satisfied that an independent review is warranted, the Planning Secretary will notify the landowner in writing of that decision, and the reasons for that decision, within 21 days of the request for a review.	
С	C9	<ul> <li>If the Planning Secretary is satisfied that an independent review is warranted, within 3 months, or other timeframe agreed by the Planning Secretary and the landowner, of the Planning Secretary's decision, the Applicant must: <ul> <li>a) Commission a suitably qualified, experienced and independent person, whose appointment has been approved by the Planning Secretary, to: <ul> <li>i) consult with the landowner to determine their concerns;</li> <li>ii) conduct monitoring to determine whether the development is complying with the relevant criterion in Part B of this consent; and</li> <li>iii) if the development is not complying with the relevant criterion, identify measures that could be implemented to ensure compliance with the relevant criterion;</li> <li>b) give the Planning Secretary and landowner a copy of the independent review; and</li> <li>comply with any written requests made by the Planning Secretary to implement any findings of the review.</li> </ul> </li> </ul></li></ul>	
D	D4	Adaptive Management The Applicant must assess and manage development-related risks to ensure that there are no exceedances of the criteria and performance measures in this consent. Any exceedance of these criteria or performance measures	Section 7.0



Schedule/ Part	Condition	DA305-7-2003				
		constitutes a breach of this consent and may be subject to penalty or offence provisions under the EP&A Act or EP&A Regulation. Where any exceedance of these criteria or performance measures has occurred, the Applicant must, at the earliest				
		<ul> <li>opportunity:</li> <li>a) take all reasonable and feasible steps to ensure that the exceedance ceases and does not recur;</li> </ul>				
		<ul> <li>b) consider all reasonable and feasible options for remediation (where relevant) and submit a report to the Department describing those options and any preferred remediation measures or other course of action; and</li> <li>c) implement reasonable remediation measures as directed by the Planning Secretary.</li> </ul>				
D	D5	Management Plan Requirements Management plans required under this consent must be prepared in accordance with relevant guidelines, and include where relevant: a) summary or relevant background or baseline data;				
		h) details of:	Section 2.0			
		<ul> <li>i) the relevant statutory requirements (including any relevant approval, licence or lease conditions);</li> <li>ii) any relevant limits or performance measures and criteria; and</li> </ul>	Section 1.4 Section 3.0			
		iii) the specific performance indicators that are proposed to be used to judge the performance of, or guide the implementation of, the development or any management measures;	Section 3.3			
		c) any relevant commitments or recommendations identified in the documents listed in condition A2(c);	Section 1.4.1			
		<ul> <li>a description of the measures to be implemented to comply with the relevant statutory requirements, limits, or performance measures and criteria;</li> </ul>	Sections 5.0 & 6.0			
		<ul> <li>e) a program to monitor and report on the:</li> <li>i) impacts and environmental performance of the development;</li> </ul>	Sections 6.0 & 9.0			
		<ul> <li>ii) effectiveness of the management measures set out pursuant to paragraph (d);</li> <li>f) a contingency plan to manage any unpredicted impacts and their consequences and to ensure that ongoing impacts reduce to levels below relevant impact assessment criteria as quickly as possible:</li> </ul>	Section 7.1			
		<ul> <li>g) a program to investigate and implement ways to improve the environmental performance of the development over time;</li> </ul>	Section 9.2			
		<ul> <li>h) a protocol for managing and reporting any:</li> <li>i) incident, non-compliance or exceedance of any impact assessment criterion and performance criterion;</li> <li>ii) complaint; or</li> <li>iii) failure to comply with other statutory requirements; and</li> </ul>	Sections 9.5 & 6.6 Section 8.0 Section 7.2			



Schedule/ Part	Condition	DA305-7-2003	BMP Section
		<ul> <li>i) a protocol for periodic review of the plan.</li> <li>Note: The Planning Secretary may waive some of these requirements if they are unnecessary or unwarranted for particular management plans.</li> </ul>	Section 9.1
D	D14	Noise, blast and/or air quality monitoring under this consent may be undertaken at suitable representative monitoring locations instead of at privately-owned residences or other locations listed in Part B, providing that these representative monitoring locations are set out in the respective management plan/s.	Section 6.0

#### Table 3: Blasting Commitments from DA305-7-2003 Mod 16 Environmental Assessment

EA		Reference	Commitment	BMP Section
DA30 2003 16	5-7- Mod	EA, Appendix 10, Section 3	To avoid any combined impacts of blasting on the adjacent community no simultaneous blasting from the two open cut pits (Wambo Open Cut and United Open Cut) is to be undertaken.	Section 5.13.1
		EA, Appendix 10, Section 8	Periodic monitoring of infrastructure, including the transmission towers and Golden Highway will be required when blasting within a 500 metre radius of the Wambo Open Cut.	Section 6.2
			The Pre-Blast Assessment Protocol will be updated to address the United Open Cut. This protocol will be updated on a regular basis, in line with the advancement of the Wambo and United Open Cut pits.	Section 5.4
			Hunter Valley Gliding Club and Warkworth Shooting Complex will be informed of upcoming blasts.	Section 5.2.1



#### Table 4: EPL 529 Requirements for the BMP

Section	EPL 529						
P1 Location of monitoring/discharge	P1.4 The follow and/or noise m	wing points referred to in the table below are ide onitoring and/or setting limits for the emission of n	ntified in this licence for the purposes of weather oise from the premises.	Section 6.2			
points and areas	EPA ID No.	Type of monitoring point	Location description				
	10	Air blast overpressure and ground vibration peak particle velocity monitoring	Monitoring location identified as BM02 (Figure 3)				
	11	Air blast overpressure and ground vibration peak particle velocity monitoring	Monitoring location identified as BM05 (Figure 3)				
	12	Air blast overpressure and ground vibration peak particle velocity monitoring	Monitoring location identified as BM07 (Figure 3)				
L5 Blasting	L5.1 Blasting in or on the premises must only be carried out between 0900 hours and 1700 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.						
	.2 The airblast for more than s	Section 3.1					
	L5.3 The airbla Peak) at any ti	Section 3.1					
	L5.4 The grour exceed 5mm/s point 10, 11 or	Section 3.2					
	L5.5 The ground vibration peak particle velocity from blasting operations carried out in or on the premises must not exceed 10mm/sec at any time; at monitoring points 10, 11 or 12 in Condition P1.4.						

				Pea	<u>body</u>	
Section		EPL	529		BMP Section	
	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 (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.					
M8	M8 Blasting To determine compliance with conditions L5.2, L5.3, L5.4 and L5.5: a) Airblast overpressure and ground vibration levels must be measured and electronically recorded for monitoring points 10, 11 and 12 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.					
	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		



## **1.5 Stakeholder Consultation**

As required by Condition B38 of DA305-7-2003, WCPL must prepare the BMP for the Mine in consultation with the EPA and to the satisfaction of the Planning Secretary. This BMP (including all appendices) has been reviewed and updated in consultation with the EPA and NSW Department of Planning and Environment (DPIE). Evidence of this consultation is provided in **Appendix A**.

Previous reviews of the BMP included additional mitigation measures proposed by WCPL (in consultation with the EPA) regarding management and response of blast fume events, including:

- Implementation of a Blast Fume Incident Notification Procedure (Section 5.2.2); and
- Use of a mobile weather station (**Section 6.1.1**).

The Road Closure Management Procedure for blasting within 500m of the Golden Highway was prepared in consultation with the RMS and Singleton Shire Council (**Appendix D**).

The Notification Procedure for Blasting within 500m of private property (**Appendix E**) was prepared in consultation with:

- NSW Crown Lands;
- Hunter Local Land Services (LLS);
- Glencore (United); and
- Hunter Valley Operations (HVO).

Version 10 of the BMP was provided to the EPA and DPIE 28 November 2019. Mr Jeff Hanlon was endorsed as the suitably qualified blast expert 9 December 2019. The BMP was approved 18 February 2020. Version 11 was approved 16 April 2020 (**Appendix A**).



# 2.0 Baseline Data

WCPL has been monitoring airblast overpressure and ground vibration around the Mine since February 2004. Monitoring locations are shown in **Figure 3 (Section 6.2)**. In the preparation of this review of the BMP, the airblast overpressure and ground vibration results for the period February 2004 to December 2018 were collated. A summary of the results and WCPL's performance against respective blasting criteria is presented below.

### 2.1 Air Blast Overpressure

**Table 5** summarises the review of blast overpressure results for the period 2007/2008 through to the end of the 2018 calendar year.

			Crit	eria	Results	
Period	NO. BIASTS	Location	>115(dBL)	>120(dBL)	Overpre	ssure (dBL)
		Location	5%	0%	Ave	Max
2007/2009	100	BM02	1.8%	0%	105.0	115.2
2007/2006	109	BM05	0.9%	0%	109.4	117.8
2008/2000	09	BM02	1.0%	1.0%	101.9	120.3
2006/2009	90	BM05	0%	0%	107.6	115.0
2000/2010	60	BM02	0%	0%	96.9	107.0
2009/2010	02	BM05	0%	0%	102.4	113.6
2010/2011	69	BM02	0%	0%	99.0	107.5
2010/2011	00	BM05	1.5%	1.5%	100.7	124.4
2011/2012	76	BM02	0%	0%	99.5	111.0
2011/2012	76	BM05	1.3%	0%	102.6	118.5
	70	BM02	2.9%	1.4%	99.9	120.6
2012/2013		BM05	0%	0%	103.5	114.6
		BM07	1.4%	0%	103.3	115.2
	73	BM02	0%	0%	98.4	109.5
2013/2014		BM05	0%	0%	103.2	114.4
		BM07	0%	0%	101.8	111.5
	78	BM02	0%	0%	101.3	113.1
2015		BM05	0%	0%	102.5	113.0
		BM07	0%	0%	102.5	112.4
		BM02	0.9%	0%	96.4	118.6
2016	106	BM05	1.9%	0%	103.7	115.8
		BM07	0.9%	0%	99.8	115.7
		BM02	2.1%	0%	99.9	119.3
2017	96	BM05	3.2%	0%	104.2	118.5
		BM07	0%	0%	92.4	110.5
		BM02	1.0%	0%	97.5	117.0
2018	96	BM05	2.1%	0%	104.4	116.5
		BM07	0%	0%	98.5	111.4

#### Table 5: Review of Blast Overpressure Results from June 2007 to end 2018

Since February 2004 a total of 1391 blasts have been undertaken across the Mine. There have been no exceedances of the 5% allowable over the 115dBL of the total number of blasts during a twelve-month period/calendar year.



There have been 24 results over 115dBL or approximately 1.7% of all blasts since February 2004. The results over 115dBL included;

- BM02 (Kelly) has recorded 9 results
- BM05 (Muller) has recorded 13 results; and
- BM07 (Thelander) has recorded 2 results.

WCPL has recorded a total of four blasts which exceeded the 0% limit for blasts exceeding the 120dBL. This represents approximately 0.3% of all blasts since February 2004. The results over 120dBL included;

- BM02 (Kelly) has recorded two results; and
- BM05 (Muller) has recorded one result.

There has not been an overpressure result greater than 115dBL recorded by WCPL external blast monitoring units at a private residence since the 2012/2013 reporting period.

### 2.2 Ground Vibration

**Table 6** summarises the review of ground vibration results for the period 2007/2008 through to the end of the 2018 calendar year.

	No. Blast	Monitoring	>5mm/s	>10mm/s	Vibratio	on (mm/s)
Period	for Period	Location	5%	0%	Ave	Max
2007/2009	100	BM02	0%	0%	0.40	0.90
2007/2008	109	BM05	0%	0%	0.52	1.34
2000/2000	00	BM02	0%	0%	0.44	0.97
2006/2009	90	BM05	0%	0%	0.40	0.95
2000/2010	62	BM02	0%	0%	0.24	0.38
2009/2010	62	BM05	0%	0%	0.40	1.02
2010/2011	69	BM02	0%	0%	0.57	1.74
2010/2011	00	BM05	0%	0%	0.51	2.92
2011/2012	76	BM02	0%	0%	0.21	0.72
2011/2012	70	BM05	0%	0%	0.35	1.03
	70	BM02	0%	0%	0.16	0.55
2012/2013		BM05	0%	0%	0.48	1.38
		BM07	0%	0%	0.55	1.40
		BM02	0%	0%	0.15	0.53
2013/2014	73	BM05	0%	0%	0.40	1.83
		BM07	0%	0%	0.39	1.86
		BM02	0%	0%	0.16	0.65
2015	78	BM05	0%	0%	0.38	1.37
		BM07	0%	0%	0.43	1.44
		BM02	0%	0%	0.15	1.79
2016	106	BM05	0%	0%	0.43	1.43
		BM07	0%	0%	0.41	1.84

#### Table 6: Review of Ground Vibration Results from June 2007 to end 2018



No. Blast		Monitoring	>5mm/s	>10mm/s	Vibratio	n (mm/s)
Period	for Period	Location	5%	0%	Ave	Max
		BM02	0%	0%	0.2	2.09
2017	96	BM05	0%	0%	0.56	2.75
		BM07	0%	0%	0.47	1.87
		BM02	0%	0%	0.06	0.19
2018	96	BM05	0%	0%	0.41	1.77
		BM07	0%	0%	0.39	1.97

There has not been an exceedance for either the >5mm/s and >10mm/s ground vibration limits recorded by WCPL external blast monitoring units at a private residence since DA305-7-2003 was granted.

## 2.3 Blast Fume

Since blast fume monitoring commenced on 2 July 2012, 95% of all blasts at WCPL have been assessed based on their blast fume ranking (**Table 7**). A total of 99% of all blasts have been assessed as Category 2 or below. One Category 4 blast fume event occurred in 2012.

Veee	NOx Fume Ranking						Total No of
Year	0	1	2	3	4	5	monitored
2012	67%	15%	12%	4%	1%	0%	67
2013	85%	5%	6%	3%	0%	0%	62
2014	85%	11%	3%	1%	0%	0%	75
2015	81%	18%	3%	0%	0%	0%	79
2016^	89%	8%	3%	1%	0%	0%	36
2017	81%	18%	0%	1%	0%	0%	114
2018	71%	24%	4%	0%	0%	0%	90
Average %	80%	14%	4%	1%	0%	0%	523

#### Table 7: Blast Fume Rankings Results from July 2012 to End 2018

^ 106 blasts recorded however fume ranking results only available for 36 blasts



# 3.0 Blast Criteria

## 3.1 Airblast Overpressure Criteria

Table 8 describes WCPL's airblast overpressure criteria from DA305-7-2003 and EPL 529.

#### Table 8: Airblast Overpressure Assessment Criteria

Location	Airblast Overpressure Level (dBLin Peak)	Allowable Exceedance
Residence on privately- owned land	115	5% of the total number of blasts over a calendar year
	120	0%
Wambo Homestead	120	0%
All other heritage items	133	0%

## 3.2 Vibration Criteria

Table 9 describes WCPL's ground vibration criteria from the DA305-7-2003 and EPL 529.

Location	Peak Particle Velocity (mm/s)	Allowable Exceedance	
Residence on privately-owned land	5	5% of the total number of blasts over a period of 12 months	
	10 0%		
Wambo Homestead	5	0%	
All other heritage items	5	0%	
Prescribed dams <sup>1</sup>	50	0%	
Public roads	100	0%	
All other public infrastructure <sup>2</sup>	50	0%	

#### Table 9: Ground Vibration Assessment Criteria

1. Unless otherwise directed by the DSC

2. Or a limit determined by the structural design methodology in AS2187.2-2006, or its latest version, or other alternative limit for public infrastructure, to the satisfaction of the Planning Secretary.

The blasting criteria in **Table 9** do not apply if WCPL has an agreement with the owner/s of the relevant residence or infrastructure to exceed the blasting criteria, and WCPL has advised the DPIE in writing of the terms of this agreement. WCPL currently does not have any alternate criteria for residences or infrastructure. If required, WCPL will review the BMP should the need arise for alternate ground vibration limits.



## 3.3 Performance Indicators

The following performance indicators will be used to judge the performance of the Mine:

- 100% compliance with the Blast Criteria in **Table 8** and **Table 9**;
- No 'Rating 3' fume events leaving the Approved Surface Development Area (Project Area (**Figure 2**) or closed portion of a public road; and
- No 'Rating 4' or 'Rating 5' fume events.

Section 7.1 details the contingency measures to be implemented to manage any unpredicted impacts. Section 9.5 details the reporting that will be undertaken by WCPL if the above performance indicators are not met.



# 4.0 Blasting Restrictions

### 4.1 Blasting Hours

WCPL will only carry out blasting activities between 9am and 5pm, Monday to Saturday inclusive.

No blasting will be carried out on Sundays, public holidays, or at any other time without the prior written approval of the EPA and Planning Secretary.

### 4.2 Blasting Frequency

WCPL will comply with the following blast frequency<sup>1</sup> restrictions:

- A maximum of 3 single blast events<sup>2</sup> a day; and
- A maximum of 15 single blast events<sup>3</sup> a week, averaged over a calendar year.

WCPL will not carry out more than 1 blast a day within 500 metres of Wallaby Scrub Road or the Golden Highway.

### 4.3 Blasting Within 500m of Public Roads or Private Land

WCPL will not undertake blasting within 500 metres of any public road or any land outside the site that is not owned by WCPL, unless the blast generates ground vibration of 0.5 mm/s or less, or WCPL has:

- a written agreement with the relevant infrastructure or landowner to allow blasting to be carried out closer to the public road or land, and WCPL has advised the Department in writing of the terms of this agreement, or
- demonstrated to the satisfaction of the Planning Secretary that the blasting can be carried out closer to the public road or land without compromising the safety of people or livestock or damaging the road or buildings and structures, and updated the BMP to include the specific mitigation measures to be implemented while blasting is being carried out within 500 metres of the road or land.

WCPL has developed a Road Closure Management Procedure for implementation when blasting causes the temporary closure of the Golden Highway (**Appendix D**). This procedure was approved by the RMS and Singleton Council in June 2017 and includes measures to minimise the frequency and duration of any public road closures for blasting, including during peak traffic periods.

WCPL has also developed a notification procedure when blasting is undertaken within 500 metres of a private property. This procedure is included in **Appendix E.** 

<sup>&</sup>lt;sup>1</sup> This condition does not apply to blasts that generate ground vibration of 0.5 mm/s or less at any residence on privately-owned land, or to blast misfires or blasts required to ensure the safety of the mine, its workers or the general public.

<sup>&</sup>lt;sup>2</sup> A single blast event' means a blast which involves either a single detonation or a number of individual blasts fired in quick succession in a discrete area of the development. Should an additional blast be required after a blast misfire, this additional blast and the blast misfire are counted as a single blast event.



# **5.0 Blast Management and Control Measures**

WCPL will implement best practice blast management procedures to minimise blast overpressure, ground vibration, flyrock, fume, and dust and odour impacts. In addition, the management measures will be undertaken to minimise impacts to Aboriginal heritage and European heritage sites for the duration of the Project. Blast management procedures will be implemented, including:

- Training all relevant personnel on environmental obligations and safe handling of explosives;
- Inspections and preparation of proposed blast areas to ensure all soft, loose or blast damaged material is removed prior to drilling;
- Designing blasts to ensure that ground vibration and airblast overpressure limits are met, and there is no damage to life or property from flyrock, including consideration of wind speed, direction and other meteorological factors prior to blasting to minimise impacts on neighbours;
- Notification of blasting times to Private Receivers and maintenance of a free-call Blasting Information Line;
- Use of adequate stemming, a delay detonation system, and careful drilling and hole loading to ensure that the required blast design is implemented;
- Pre-blast assessment of weather conditions and the potential for fume generation (Fume Incident Notification Procedure (**Appendix C**));
- Monitoring of blasts at the closest private residences (or within a representative location) to determine whether airblast and ground vibration limits are met;
- Completion of the Blast Controller Checklist;
- Review of monitoring results and modification of the blast design, if necessary;
- Documentation of the date and time of the blast, location of blast holes and quantity of explosive used in each blast;
- Maintain all plant and equipment in a proper and efficient condition;
- Operate all plant and equipment in a proper and efficient manner; and
- Periodic review of blast management practices to evaluate performance and identify responsive action, if required.

### 5.1 Cumulative impacts

To prevent cumulative blasting impacts with surrounding mines, WCPL includes the Drill & Blast Supervisors from Bulga Operations, Mount Thorley Operations, Warkworth Operations, and Hunter Valley Operations on all blast email notifications. These notifications will be extended to the Drill & Blast Supervisor at the United Open Cut mine when it commences blasting, to ensure there are no simultaneous blasts undertaken at the two mines.

In the event of a blast event being rescheduled, further e-mail notification is made alerting neighbouring mining operations of the change.



## 5.2 Public Notification

### 5.2.1 **Pre-blast notification**

WCPL operate a Blasting Hotline and SMS message service<sup>3</sup> to enable the public to get upto-date information on blasting operations at the Mine. The Drill and Blast (D&B) Superintendent (or delegated authority), updates the Blasting Hotline 24hrs prior to the scheduled blast event. If a blast event is rescheduled, a revised schedule is posted. The contact details for the blasting hotline are:

### • 24hr Blasting Information Line: (02) 8250 5205

WCPL operate a Community Enquiries Line and email address to enable the public to either make an enquiry or register a complaint regarding WCPL operations. The contact details for the Community Enquiries Line and email address are:

- 24hr Community Enquiries Line: (02) 6570 2245
- E-mail Enquiries <u>wambocommunity@peabodyenergy.com</u>

WCPL undertake the following notifications on an annual basis:

- Advertise both the Community Enquiries Line and Blasting Information Line in local newspapers; and
- Notify the occupants of any land within 2km of the site of the Community Enquiries Line and Blasting Information Line.

### 5.2.2 Fume Incident Notification

In the event that a blast fume event has been identified (as a result of a WCPL blast event) and having the potential to leave the Project Area towards the direction of adjacent neighbouring properties, the Environment and Community (E&C) Manager (or delegate) will initiate the WCPL Fume Incident Notification Procedure (**Appendix C**).

The E&C Manager (or delegate) will notify affected landholders of a potential fume event approaching their property and to proceed with measures to avoid potential exposure to the blast fume. Current contact details for landholders who may potentially be impacted by a blast fume event at the Mine are detailed in Section 3.4 of WCPL's Fume Incident Notification Procedure (**Appendix C**).

In the event the WCPL Fume Incident Notification Procedure is initiated, the E&C Manager will proceed with correspondence to those affected neighbours and government authorities in accordance with **Section 7.0** and **Section 9.5** of this BMP.

<sup>&</sup>lt;sup>3</sup> WCPL provide a blast SMS notification service to members of the community who have registered for the service, as well as to representatives from the nearby Hunter Valley Gliding Club and Warkworth Shooting Complex. The SMS message with blasting details is sent out the day before the scheduled blast event.



## 5.3 **Property Investigations and Independent Review**

If the owner of any privately-owned land within a 2 km radius of the site (or any other landowner where the Planning Secretary is satisfied that an investigation is warranted) claims in writing that buildings or structures on their land have been damaged as a result of blasting on the site, then within 2 months of receiving this written claim WCPL will:

- commission a suitably qualified, experienced and independent person, whose appointment is acceptable to both parties, to investigate the claim; and
- give the landowner a copy of the property investigation report.

If this independent investigation confirms the landowner's claim, and both parties agree with these findings, then WCPL will repair the damages to the satisfaction of the Planning Secretary.

If there is a dispute over the selection of the suitably qualified, experienced and independent person or if WCPL or the landowner disagrees with the findings of the independent property investigation, then either party may refer the matter to the Planning Secretary for resolution.

### 5.4 **Pre-Blast Meteorological Assessment**

WCPL will only proceed with a scheduled blast event if suitable meteorological conditions exist to minimise the potential for blast generated dust and fume to impact neighbouring properties, and these conditions remain favourable up to the time of firing. Data for the pre-blast meteorological assessment is taken from a range of meteorological monitoring locations, as discussed in **Section 6.1**.

A pre-blast assessment of weather conditions and the potential for fume generation is completed before firing each blast. Meteorological readings are taken and assessed to ensure favourable direction of drift of dust (and any potential fume). Wind direction is physically checked by the release of helium balloons. Readings are recorded on form WA-ENV-FRM-507.3 Blast Checklist.

Where conditions are determined to be unfavourable, the blast will be delayed, postponed or cancelled until favourable meteorological are observed.

There may be circumstances in which a blast event needs to be fired in less than ideal weather conditions. Failure to initiate blasts may indeed increase the potential for fume generation and/or occupational health and safety risks to personnel and community members. In these specific and rare circumstances, the final decision making process will be elevated to the General Manager (or in their absence, to the delegated authority) with relevant input from the D&B Engineer, D&B Superintendent and E&C Manager. The General Manager (or delegate) must approve the blast in writing by signing the appropriate section on the Blast Checklist.



## 5.5 Fume Management

WCPL have prepared and implemented a Blast Fume Management Strategy (BFMS) in accordance with correspondence received from Department of Planning and Environment outlining the general requirements under Stage 2 of the fume minimisation measures (*Elements of a Blast Fume Management Strategy*). The purpose of the BFMS is to provide fume minimisation measures at WCPL for all surface blasting activities. A copy of the approved BFMS is provided in **Appendix B**.

### 5.6 Blast Design

Blast design is considered critical in the hierarchy of control measures when considering mitigating blast impacts. The D&B Engineer is responsible for every blast design at WCPL. The following are important blast control measures considered by the D&B Engineer when preparing a blast design, including but not limited to:

#### **Review Historical Blast Results**

• The D&B Engineer as part of the blast planning and design process, is to review past blast data to identify and develop appropriate design and mitigation strategies from historical blast events.

#### Survey Control

• Initial blast designs are produced using recent survey and/or 3D geological modelling technology with specialised mining computer software e.g. Vulcan by Maptek, to define the limits and location of the blast pattern.

#### **Bulk Explosives**

• Where water is found to be present, the blastholes will be loaded with a suitable water resistant product as per the manufacturer's recommendations.

#### **Stemming Height**

• The D&B Engineer will design the shot with adequate stemming to minimise the chance of flyrock and overpressure, based on the results from previous blasts.

#### **Stemming Material**

• Quality aggregate will be used to stem blast holes to provide enhanced confinement over traditional drill cuttings) to prevent explosive ejection.

#### Face Burden

 Blast holes shall be designed to provide adequate burden to prevent face blow out and thus reduce the possibility of flyrock and airblast overpressure. Where necessary face surveying (laser profiling) techniques may be employed to measure overburden between the blast face and blast holes to ensure sufficient burden is present to prevent blowouts and blast anomalies.

#### Blast Hole Length/Depth

 This is initially determined from the geological model of the coal seams at WCPL. Holes are drilled from the floor of the coal seam through the interburden to the top of next coal seam. Where the length of the blast hole is deemed to be excessive and there is a risk of exceeding the maximum instantaneous charge (MIC) required to comply with site environmental conditions, the blast shall be redesigned. The D&B Engineer will assess the viability of options such as reducing the depth of the blast by drilling to a chosen reduced level (RL), reducing the diameter of the blasthole or reducing the MIC by deck loading the blasthole with an appropriate in-hole delay.



# 5.7 Blast Planning

There are several important steps undertaken at WCPL to ensure blast design is implemented correctly in the field to minimise blast impacts. The D&B Superintendent is responsible for carrying out the correct procedures when implementing each blast design at WCPL. The following are essential steps overseen by the D&B Superintendent when preparing a blast. They include, but are not limited to:

#### Drill Preparation

• The area for the proposed drill pattern is cleaned and then inspected by the D&B Superintendent prior to the setting out of the drill pattern.

### **Drill Pattern Set Out**

 WCPL survey department are provided with the coordinates of the designed drill pattern and this is set out in the field using GPS technology and traditional survey techniques. GPS units are attached to each drilling unit to accurately drill the blast pattern as per design.

#### **Drill Blast Holes**

• Daily records are kept by the Drill Operators or Blast Contractors documenting hole depths and anomalies in the predicted geology. This information is then utilised by the D&B Engineer to ensure the holes are not over drilled, thus reducing the possibility of coal damage and overloading of holes with bulk blasting product.

#### **Survey Control**

• Where planned face holes are unable to be set out in the correct location the surveyors provide the adjusted positions back to the D&B Engineer to modify the design.

### **Blast Hole Dipping**

- The shot crew dips the holes to test their depth and identify for the possible presence of water. This information is then used by the D&B Engineer to calculate the explosive quantities per hole and make any modifications as required. Where any trace of water is recorded a suitable water resistant bulk explosive is assigned to the hole/s to minimise the generation of fume.
- Where possible holes that have a small amount of standing water at the bottom of the hole are sealed off with a gas bag just above the water level to isolate the explosives from the water.
- Where holes are found to have a substantial amount of water, a dewatering unit will be employed to purge the water from the holes. A check is then made to ensure the holes are not refilling with water before filling with bulk explosives.

#### Blast Loading

- Field data is used by the D&B Engineer to produce 'load sheets' which stipulate the type and quantity of the explosives and length of stemming to be placed in each hole to achieve the designed powder factor. The load sheets are created on the field tablets or printed off and used by the shot crew to load each hole specific to the requirements of the load sheet. Specially constructed mobile manufacturing units (MMU's) are used by the Blasting Contractor to ensure the correct mix of product is achieved and correct stemming height is obtained.
- Where possible blasts are designed to ensure the prompt loading of drill holes and subsequent firing of the shot to minimise 'sleep time' and exposure to moisture.



#### Blast Tie Up

- The D&B Engineer in consultation with the D&B Superintendent and Shot Firer creates a 'Tie Up Plan' detailing the method for connecting and firing the shot. A paper plan is produced and given to the Shot Firer who implements the Tie Up in the field.
- Upon completion of the Tie Up and subsequent checking process, the Shot Firer in conjunction with the D&B Supervisor carries out the Pre Blast Checklist prior to detonating the shot.

#### Fume Assessment

• A pre-shot fume assessment is to be undertaken by the designated Shot-Firer and the D&B Engineer and Blast Controller.

## 5.8 Blast Exclusion Zones

An appropriate exclusion zone for personnel will be established around each blast site prior to firing a blast. The exclusion zone will be established beyond the expected range of any fly rock with an additional safety margin. The establishment of this zone will minimise the risk of any injuries to people or livestock due to fly rock;

Any unusual level of fly rock generated by blasting, with the potential to cause a safety risk will be noted for each blast. This information will be used to continually re-assess the adequacy of blast design controls in reducing the generation of fly rock. The information will also be used to re-assess the size of the safety exclusion zone established for people and livestock in the vicinity of a blast; and

If fume or dust potential generation is identified, the D&B Superintendent may choose to extend the exclusion zone downwind from the blast to minimise the chance of exposure to personnel.

### 5.9 Flyrock Management

To ensure WCPL reduce the potential for flyrock generation, the following key mitigation measures will be implemented, including, but not limited to:

- Implement appropriate blast exclusion zones for each blast event. The blast exclusion zone considers the expected range of any fly rock with an additional safety margin that reduces the risk for damage to WCPL owned property, equipment or other infrastructure from flyrock;
- In addition, WCPL landholdings are security patrolled, fenced, sign posted and also provide a sufficient buffer between neighbouring private landholders and their livestock from WCPL blasting activities;
- All designs will clearly identify hole inclination to avoid the possibility of reduced face burden, thus avoiding the potential for flyrock incidents; and
- Any unusual level of fly rock generated by blasting, with the potential to cause a safety risk, will be noted for each blast. This information will be used to continually re-assess the adequacy of blast design controls in reducing the generation of fly rock. The information will also be used to re-assess the size of the safety exclusion zone established for people and livestock in the vicinity of a blast.



# 5.10 Heritage Sites

### 5.10.1 Aboriginal Cultural Heritage

A survey and assessment of Aboriginal cultural heritage within the Project Area was conducted during the 2003 Environmental Impact Statement (2003 EIS). No blasting related impacts to Aboriginal heritage were predicted as a result of the Mine's operations.

Disturbance of Aboriginal heritage artefacts located within the Project Area are subject to a Section 90 Permit issued under the *National Parks & Wildlife Act 1976*. An Aboriginal Heritage Impact Permit (AHIP) No. 2222 has been issued to WCPL under the *National Parks & Wildlife Act 1976*, expiring on the 1 March 2025.

Should further Aboriginal cultural heritage artefacts be found, which are not subject to AHIP No. 2222 and determined at risk of impact from blasting activities, then a further assessment will be undertaken in consultation with WCPL archaeological specialists.

### 5.10.2 Wambo Homestead

WCPL currently monitors and reports on potential ground vibration impacts on the Wambo Homestead Complex (WHC). The following mitigation measures are implemented:

- Monitoring is undertaken at the WHC for all blasts within 2km of the Complex;
- A suitably qualified and experienced structural engineer, with expertise in vibration and blast monitoring has been appointed to examine all monitoring records from the WHC blast monitoring station. The appointment of the structural engineer was approved in writing by the Director of the Heritage Branch (formally the NSW Heritage Office) in November 2005 (Appendix A);
- The structural engineer reports to WCPL on the monitoring results each month for blasting within 2km of the WHC and 6 monthly for the remainder of the Mine. Recommendations are made to ensure ongoing conservation and damage prevention. Copies of these reports are forwarded to the Heritage Branch;
- The structural engineer will inspect the WHC structures annually and as soon as practical, but no later than 3 days after blasting monitoring which exceeds the ground vibration level of 5mm/s. During the period between blast monitoring being recorded which exceeds the 5mm/s criteria and the engineer's inspection, ground vibration from blasting will be limited to a level which will prevent further blasting damage. The structural engineer will advise WCPL and the Heritage Branch of any action required to repair the damage; and
- The structural engineer will make an assessment of whether blasting within 2km of the WHC is to cease or be managed in order to stabilise or repair the damage, and advise WCPL and the Heritage Branch. If blasting has been required to cease, it will not resume until the damage has been stabilised or repaired, and written approval for resumption has been received by the Heritage Branch.



# 6.0 Blast Monitoring Program

WCPL's Blast Monitoring Program includes monitoring of airblast overpressure and ground vibration for all blasts at locations as close as reasonably practical to the nearest private receivers. Monitoring will also be undertaken at relevant public infrastructure, Aboriginal heritage sites and the Wambo Homestead Complex (**Table 10** and **Figure 3**).

The objective of the monitoring program is to obtain assurance that amenity overpressure and vibration limits are being achieved at Private Receivers and that damage criteria are being achieved for public infrastructure, Aboriginal heritage sites and the Wambo Homestead Complex.

## 6.1 Meteorological Monitoring

WCPL maintains a continuous on-site meteorological monitoring station that complies with the requirements of the *Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales* (DEC, 2007). The location of this meteorological monitoring station is identified on **Figure 3**.

The meteorological station is routinely calibrated and maintained by appropriately accredited technicians. The following parameters are monitored:

- Rainfall;
- Relative humidity;
- Temperature measured at 2, and 10m above ground level;
- Wind speed horizontal and vertical;
- Wind direction measured at 10 m above ground level;
- Sigma theta;
- Pasquil stability classification;
- Solar radiation; and
- Temperature lapse rate.

WCPL also maintain 4 remote weather stations for environmental management purposes which are available for use in the pre-blast meteorological assessment.

### 6.1.1 Mobile Weather Station

WCPL also maintains a mobile weather station to provide localised weather readings for blast events at the northern end of the Mine. This weather station will remain available while blasting occurs at the northern end of the Mine. These readings will be used in addition to the weather readings taken from the meteorological station approved under the EPL 529. Meteorological data from both weather stations will be used during the Pre-Blast Meteorological Assessment to assess dust and fume risks associated with each blast.



## 6.2 Blast Monitoring Locations

Monitoring locations for overpressure and ground vibration are shown in **Table 10** and **Figure 3**.

Location	Site ID	Purpose	Easting	Northing	Justification
Wambo Homestead	BM01	Structural	311524	6393232	Data used to assess damage in accordance with <i>Australian</i> <i>Standard AS 2187.2-1993</i> <i>"Explosives – Storage Transport</i> <i>and Use" for Sensitive and Heritage</i> <i>Structures</i>
Kelly (Warkworth Village)	BM02	Compliance	314116	6394560	Representative of public roads and infrastructure in Warkworth.
Harris (Wambo Road)	BM03	Performance	311155	6390609	Performance based monitoring on WCPL owned land to the south of the Mine
Muller (Jerrys Plains)	BM05	Compliance	305984	6399794	Representative of the nearest sensitive receiver to north of the Mine
Thelander (Jerrys Plains)	BM07	Compliance	304496	6398655	Representative of the nearest sensitive receiver to north west of the Mine

#### Table 10: Blast Monitoring Sites

Periodic monitoring of infrastructure, including the transmission towers and Golden Highway, will be required when blasting is within a 500 metre radius of the Wambo Open Cut. This monitoring will be undertaken in consultation with infrastructure owners, as required. Results of this monitoring will be compared to the blast criteria in **Section 3.0** and reported in accordance with **Section 9.0**.

### 6.3 Methodology

Instrumentation used to measure and record the airblast overpressure and ground vibration levels will meet the requirements of *Australian Standard AS 2187.2-2006 (Explosives – Storage, Transport and Use - Use of Explosives).* 

Monitoring equipment used on-site will typically include a geophone (e.g. standard 4.5 hertz geophone with a range of up to  $\pm$  556 mm/s) and microphone (e.g. with a range of between 80 to 140 decibels). The monitoring equipment will display the due date of upcoming calibration. Calibration of the monitoring units will be undertaken in accordance with manufacturer's specifications.

All blasts will be video recorded to enable a post blast assessment of potential dust and fume impacts.





Figure 3: Blast Monitoring Locations


### 6.4 Data Collection

WCPL utilise both permanent fixed and temporary roaming blast monitoring units to collect relevant blast monitoring data. Fixed units utilise a radio transmitter to enable instantaneous transfer of data to relevant personnel. This data can be immediately accessed to enable an initial compliance assessment. Data from the roaming units is collected and stored within the unit and is available for download upon return to the office. All blast monitoring data is retained in a consolidated data base maintained by WCPL Environmental Department.

### 6.5 Evaluation of Performance

All blast monitoring results, video recordings of the blast and visual assessments made by relevant WCPL personnel, will be evaluated following the blast to determine compliance with the blast criteria and performance indicators in **Section 3.0**, and to determine whether the best practice measures in **Section 5.0** have been successful.

WCPL will be deemed in non-compliance when airblast overpressure and ground vibration results exceed the blast criteria in **Table 8** and **Table 9** at site BM07 that is representative of privately owned residences in the Redmanvale Rd area. Any levels recorded exceeding blast criteria (120 dBLin Peak and 10mm/s ground vibration) at the BM05 Muller monitor will be further investigated to determine compliance. Levels recorded at this monitor will be used to model compliance at surrounding residences that are privately owned. BM02 will be used to assess compliance of public roads and infrastructure outlined Table 9.

WCPL will record an incident where a 'Rating 3' blast fume vent is observed leaving the Project Area or closed portion of a public road, or in the event of a 'Rating 4' or 'Rating 5' fume event.

If a blast fume event is observed leaving the Project Area towards a sensitive receiver location, the Fume Incident Notification Procedure (**Appendix C**) will be initiated in accordance with **Section 5.2.2**.

Notification of reportable incidents to the relevant government authorities will be undertaken in accordance with **Section 9.5**.

#### 6.6 Mitigation Strategies to Prevent Reoccurrences

In the event of a reportable environmental incident, all corrective actions identified through an investigation process will be implemented to mitigate the potential for a reoccurrence. Blasting mitigation and corrective management measures will consider:

- Proximity of future blast activities to sensitive receivers;
- Appropriate meteorological conditions;
- A review of the Pre-Blast Decision Procedure; and
- A review of blast design and planning protocols.



# 7.0 Adaptive Management

### 7.1 Contingency Plan to Manage Unpredicted Impacts

Blasting controls (**Section 5.0**) and monitoring (**Section 6.0**) have been implemented to minimise blast related impacts and monitor for fume events, ground vibration and airblast overpressure at neighbouring properties and other sensitive locations.

In the event that unpredicted impacts occur as a result of blasting activities at the Mine, WCPL will:

- Initiate the Fume Incident Notification Procedure when a fume event is observed leaving the Project Area in the direction of adjacent neighbouring properties;
- Implement the Fume Incident Notification Procedure (**Section 5.2.2**) to clarify the immediate post-incident responsibilities in regards to a blast fume event leaving the Project Area;
- Review the current blast controls and monitoring, to ensure it is effective and Blast Criteria is being met;
  - If the system is effective and Blast Criteria is being met, continue implementation of blast controls and monitoring;
- If the system is not effective and Blast Criteria is being exceeded, undertake reporting in accordance with **Section 9.0**;
- Develop and implement additional blast management or mitigation measures in consultation with the affected landowners; and
- Undertake follow-up blast monitoring to assess the effectiveness of the additional measures.

WCPL have identified several applicable blasting scenarios that pose a potential risk to achieving the outcomes of the BMP. A Trigger Action Response Plan (TARP) as provided by **Table 11** provides contingency measures, responsibilities and management for unforeseen impacts as a result of blasting activities.

### 7.2 Failure to Comply with Other Statutory Requirements

Statutory requirements relating to this BMP are summarised in **Section 1.4**. These requirements include compliance with DA305-7-2003 and EPL 529 as well as commitments made in the Environmental Assessment for the United Wambo Open Cut Coal Mine Project (Umwelt, 2016).

WCPL monitors compliance with these statutory requirements on an ongoing basis, including during regular reviews and reporting of blast monitoring data and as part of Annual Environmental Reviews and compliance audits (e.g. Independent Environmental Audits).

In the event that WCPL identifies a failure to comply with a statutory requirement (other than those relating to unpredicted impacts – refer **Section 7.1**), WCPL will:

- Undertake an investigation into the failure;
- Identify suitable strategies or actions to be implemented to address the failure (and avoid a recurrence of the failure); and
- Report the non-compliance in accordance with the requirements of DA305-7-2003 and EPL 529.



#### Table 11: BMP Trigger Action Response Plan

TARP Code	BMP 'Achieved'	BMP 'Not Achieved'			
Unpredicted Impact: Generation of excessive fume					
Trigger	No detectable blast fume	<ul> <li>Any blast fume verified leaving the Project Area in the direction of adjacent neighbouring properties</li> <li>Blast fume verified Level 3 or above and/or leaving Project Area</li> </ul>			
Action	<ul> <li>No immediate action required other than monitor fume for changes</li> </ul>	<ul> <li>Implement the Blast Fume Management Strategy (Appendix B)</li> <li>Implement Fume Incident Notification Procedure</li> <li>Implement PIRMP</li> <li>Record incident as required by Section 9.0</li> </ul>			
Response	Implement mitigation strategies to prevent reoccurrence after completion of investigation				
Responsible Persons	E&C Manager     D&B Engineer				
Unpredicted Imp	act: Exceedance of blast specific crite	ria			
Trigger	<ul> <li>Blast monitoring reports confirm blast specific criteria were achieved at:</li> </ul>	<ul> <li>Blast monitoring reports confirm specific criteria was exceeded at:</li> <li>A Private Residence (Table 8 and Table 9); and</li> </ul>			
	<ul> <li>Private Residences</li> <li>Wambo Homestead Complex (WHC)</li> </ul>	<ul> <li>Continues results are in the reportable range (Section 9.0); and/or</li> <li>Ground vibration and air blast levels at the WHC exceed the assessment criteria (Table 8 and Table 9).</li> </ul>			
Action	No immediate action required	<ul> <li>Report exceedances over 120dBL and 10mm/s at residences on privately-owned land, as required by Section 9.0 and in accordance with the PIRMP</li> <li>Initiate property investigations or independent reviews at the formal request of property owner/s in accordance with Section 5.3</li> <li>E&amp;C Manager to engage WCPL approved structural engineer to inspect the WHC structures as soon as practical, but no later than 3 business days after blast monitoring results (Section 5.10.2)</li> <li>Advise if action is required to repair damage to WHC in consultation with Heritage Branch</li> </ul>			



TARP Code	BMP 'Achieved' BMP 'Not Achieved'		
		Record incident as required by Section 9.0	
Response	Implement mitigation strategies to pr	event reoccurrence after completion of investigation	
Responsible	E&C Manager		
Persons	D&B Engineer		
Unpredicted Imp	act: Failure of Blasting Mitigation Mea	sures	
Trigger	<ul> <li>Project specific blast criteria achieved and other blast mitigation measures working to control fly rock and dust generation in accordance with BMP</li> </ul>	<ul> <li>Project specific blast criteria achieved however other mitigation measures did not adequately control fly rock and/or excessive dust generation in accordance with BMP</li> </ul>	
Action	No immediate action required	<ul> <li>Implement <b>PIRMP</b> if dust poses threatening material harm to the environment or community</li> <li>Record incident as required by <b>Section 9.0</b></li> </ul>	
Response	Implement mitigation strategies to prevent reoccurrence after completion of investigation		
Responsible	E&C Manager		
Persons	D&B Engineer		



# 8.0 Community Complaint Response

All blasting related community complaints received by WCPL will be recorded within the Community Complaints Register. The E&C Manager or their delegate will investigate the complaint, which will include, where possible, contacting the complainant within 24 hours to discuss the complaint. A review of the effectiveness of the corrective or preventative actions will be conducted within a month of the complaint and the relevant work procedures updated if required.

Preliminary investigations will commence as soon as practicable upon receipt of a complaint to establish if WCPL is responsible. All efforts will be made to determine the likely causes contributing to the complainant's concerns using information such as the climatic conditions at the time of blast, the nature of activities taking place and recent monitoring results.

WCPL will attempt to address the complainant's concerns such that a mutually acceptable outcome is achieved. If a mutually beneficial outcome cannot be reached, WCPL may refer the matter to the Planning Secretary for resolution.

In the event that exceedances of the blasting criteria are detected, any affected landowner or tenant will be notified within 7 days of the confirmation of the exceedance. Details of exceedances will also be provided to the CCC, in accordance with Condition C5 of DA305-7-2003.

Details of all community complaints will be included in the Monthly Environment Monitoring Report. WCPL will retain a copy of the Community Complaints Register for at least four years. The E&C Manager will ensure the latest Community Complaints Register is posted on the WCPL website.



# 9.0 Review and Reporting

#### 9.1 Review

The performance of the blast monitoring and management programs outlined in the BMP is to be reviewed annually by the E&C Manager and the D&B Engineer or their delegates. A complete review of the BMP will occur:

- Every three years;
- When there are changes to consent or licence conditions relating to blast management or monitoring;
- Following significant blast related incidents at WCPL;
- Following an independent environmental audit which requires BMP review; or
- If there is a relevant change in technology, practice or legislation.

The revised BMP will be re-submitted to the Planning Secretary for approval as required by Conditions B38 and D7 of DA305-7-2003.

### 9.2 Annual Review

Prior to the end of March each year, WCPL will review the environmental performance of the Mine and submit an Annual Review report to the DPIE. This report will:

- Describe the development (including any rehabilitation) that was carried out in the previous calendar year, and the development that is proposed to be carried out over the current calendar year;
- Include a comprehensive review of the monitoring results and complaints records of the development over the previous calendar year, including a comparison of these results against the:
  - Relevant statutory requirements, limits or performance measures/criteria;
  - Requirements of this BMP (including appendices);
  - Monitoring results of previous years; and
  - Relevant predictions in the EA;
- Identify any non-compliance which occurred in the previous calendar year, and describe what actions were (or are being) taken to rectify the non-compliance and avoid recurrence;
- Evaluate and report on:
  - The effectiveness of the noise and air quality management systems; and
  - compliance with the performance measures, criteria and operating conditions of the consent;
- Identify any trends in the monitoring data over the life of the development;
- Identify any discrepancies between the predicted and actual impacts of the development, and analyse the potential cause of any significant discrepancies; and
- Describe what measures will be implemented over the next calendar year to improve the environmental performance of the development.



### 9.3 EPL Reporting

WCPL will prepare and submit an Annual Return comprising a certified Statement of Compliance and a signed Monitoring and Complaints Summary to the EPA at the end of each EPL 529 reporting period.

WCPL will include the results of all blast monitoring required by EPL 529 as a Blast Monitoring Report within the Annual Return. The Blast Monitoring Report will include the following information relating to each blast carried out within the premises during the reporting period covered by the Annual Return:

- The date and time of each blast;
- The location of each blast on the premises;
- The blast monitoring results (airblast overpressure and ground vibration) and at each blast monitoring location; and
- An explanation for any missing blast monitoring results.

The Annual Return for the reporting period will be supplied to the EPA via *eConnect EPA* or by registered post not later than 60 days after the end of each reporting period. WCPL will retain a copy of the Annual Return for a period of at least four years after the Annual Return was due to be supplied to the EPA.

### 9.4 Website Updates

A comprehensive summary of the blast monitoring results will be made publicly available at WCPL's website:

http://www.peabodyenergy.com/content/404/australia-mining/new-south-wales/wambo-mine)

Information on the website will be updated regularly as required by DA305-7-2003.

WCPL will also ensure that any information relevant to blast management is uploaded to the website (and kept up to date). This includes:

- Current statutory approvals;
- Approved strategies, plans or programs required under the DA305-7-2003;
- A community complaints register;
- Minutes of Community Consultative Committee (CCC) meetings;
- Annual Reviews;
- A copy of any Independent Audits and WCPL's response to any recommendations in any audit; and
- Any other matter required by the Secretary.

#### 9.5 Reportable Environmental Incidents

All reportable incidents will be reported via the EPA's Environmental Line on **131 555** by the E&C Manager or their delegate in accordance with WCPL's Pollution Incident Response Management Plan (PIRMP).



In accordance with the PIRMP, WCPL will 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 *POEO Act*, for example:

- Fume generation: The reporting of fume events is discussed in the Blast Fume Management Strategy (Appendix B) (Section 3.3 Reporting of Significant Blast Fume Events);
- Exceedence of blast specific criteria: All blast overpressures exceeding 120dBL and ground vibration levels exceeding 10mm/s recorded at any external blast monitor located at a private residence will be notified as soon as practicable to relevant authorities. Internal investigations will be undertaken when blast overpressures exceed 115dBL or ground vibration levels exceed 5mm/s. At blast monitors that are located on mine owned land and record levels in exceedance of blast specific criteria, modelling will be used to determine compliance at residences on privately owned land; and
- **Public Safety & Infrastructure Damage**: A blast event that causes damage to public infrastructure, poses a risk to safety of people or livestock in the surrounding area.

For all other incidents that do not cause threatening material harm to the environment associated with the development, WCPL will notify the Planning Secretary and any other relevant agencies as soon as practicable after WCPL becomes aware of the incident.

Within 7 days of the date of the incident, WCPL will provide the Planning Secretary and any relevant agencies with a detailed report on the incident, including:

- The cause, time and duration of the event;
- Where possible, the type, volume and concentration of every pollutant discharged as a result of the event;
- The name, address and business hours telephone number of employees or agents of the licensee who witnessed the event;
- The name, address and business hours telephone number of every other person (of whom the licensee is aware) who witnessed the event, unless the licensee has been unable to obtain that information after making reasonable effort;
- Action taken by the licensee in relation to the event, including any follow-up contact with any complainants;
- Implement remediation measures as directed by the Secretary, to the satisfaction of the Planning Secretary;
- Details of any measure taken or proposed to be taken to prevent or mitigate against a recurrence of such an event; and
- Any other relevant matters.



# **10.0 Responsibilities**

**Table 12** below summarises responsibilities documented in the BMP. Responsibilities may be delegated as required.

No	Task	Responsibility	Timing
1	Overpressure and vibration limits as specified in development consent to be met	Open Cut Manager/ D&B Engineer	For each blast event
2	Blasting to be conducted between the hours of 9am to 5pm, Monday to Saturday only	Open Cut Manager/ D&B Engineer	For each blast event
3	No blasting on Sundays or public holidays without the prior written approval of the EPA and the Planning Secretary	Open Cut Manager/ D&B Engineer	As required
4	Where practical, blasting activities will be co- ordinated with surrounding mines to minimise cumulative impacts	D&B Supervisor/ D&B Engineer	As required
5	Airblast overpressure and ground vibration will be monitored at the monitoring locations for each blast event	E&C Manager	For each blast event
6	The Fume Incident Notification Procedure will be implemented	E&C Manager	As required
7	Exceedances of overpressure and/or vibration to be managed in accordance with <b>Section 7.0</b>	E&C Manager	As required
8	Blasting Complaints to be responded to in accordance with <b>Section 8.0</b>	E&C Manager	As required
9	Annual Review to include blast monitoring results, complaints, mitigation measures undertaken and a review of the monitoring undertaken	E&C Manager	Annually
10	Regulator consultation and review to be undertaken of the BMP	E&C Manager	As required
11	Implementation of blast mitigation measures in accordance with <b>Section 5.0</b>	D&B Engineer/ E&C Manager	As required
12	Prepare investigation reports and implementation of corrective actions in accordance with <b>Section 7.0</b> and <b>Section 9.0</b>	E&C Manager/Open Cut Manager/ D&B Engineer/	As required
13	Implementation of the Road Closure Management Procedure when blasting is within 500m of the Golden Highway ( <b>Appendix D</b> )	D&B Engineer/ E&C Manager	As required

#### Table 12: BMP Responsibilities



# 11.0 References

- Development Consent (DA305-7-2003)
- Wambo Development Project Environmental Impact Statement (EIS), July 2003
- Resource Strategies Pty Ltd (2003) Wambo Coal Mine Project Environmental Impact Statement. Report prepared for Wambo Coal Pty Ltd
- Umwelt (2016). United Wambo Open Cut Coal Mine Project Environmental Impact Statement
- Umwelt (2017). United Wambo Open Cut Coal Mine Project Response to Submissions (Part A), March 2017
- Enviro Strata Consulting (2016). United Wambo Open Cut Coal Mine Project Blasting Impact Assessment, Report No. UM-1505-230516
- Wambo Environment Protection Licence (529)
- Standards Australia (2006) Australian Standard (AS) 2187.2-2006: Explosives Storage and Use – Use of explosives
- Work Health and Safety (Mines and Petroleum Sites ) Act 2013
- Work Health and Safety (Mines and Petroleum Sites ) Regs 2014
- Work Health and Safety Act 2011
- Work Health and Safety Regulations 2017
- Explosives Act 2003
- Explosives Regulations 2013
- AS 2187.1 1998: Explosives Storage, Transport and Use, Part 1 Storage
- AS 2187.2 2006: Explosives Storage, Transport and Use, Part 2 Use of Explosives
- AS 2187.0 1983: Storage transport and use Terminology
- Australian Explosives Industry and Safety Group Inc (2011) Code of Practice; Prevention and Management of Blast Generated NOx Gases in Surface Blasting

# APPENDIX A CORRESPONDENCE WITH REGULATORY AGENCIES



Ms Nicole Dobbins Senior Environmental Advisor Wambo Coal Pty Ltd PMB 1 Singleton NSW 2330

15/04/2020

Dear Ms Dobbins

#### Wambo Coal Mine (DA 305-7-2003) Blast Management Plan

I refer to the revised Blast Management Plan dated March 2020, submitted in accordance with conditions B38 of Schedule 2 of the approval for the Wambo Coal Mine (DA 305-7-2003).

The Department has carefully reviewed the document and is satisfied that it adequately addresses the relevant requirements of the approval.

Accordingly, the Secretary has approved the Wambo Blast Management Plan (Revision 11, dated March 2020). Please ensure that the approved plan is placed on your website at the earliest convenience.

If you wish to discuss the matter further, please contact Melanie Hollis on 8217 2043.

Yours sincerely

Matthew Sprott Director Resource Assessments (Coal & Quarries)

As nominee of the Planning Secretary



Ms Nicole Dobbins Senior Environmental Advisor Wambo Coal Pty Ltd PMB 1 Singleton NSW 2330

18/02/2020

Dear Ms Dobbins

#### Wambo Coal Mine (DA 305-7-2003) Blast Management Plan

I refer to the revised Blast Management Plan dated November 2019, submitted in accordance with conditions B38 and B39 of Schedule 2 of the approval for the Wambo Coal Mine (DA 305-7-2003).

The Department has carefully reviewed the document and is satisfied that it adequately addresses the relevant requirements of the approval.

Accordingly, the Secretary has approved the Wambo Blast Management Plan (Revision 10, dated November 2020). Please ensure that the approved plan is placed on your website at the earliest convenience.

If you wish to discuss the matter further, please contact Melanie Hollis on 8217 2043.

Yours sincerely

Matthew Sprott A/Director Resource Assessments (Coal & Quarries)

as nominee of the Planning Secretary



 Planning and Assessments

 Energy and Resource Assessments

 Contact:
 Joel Herbert

 Phone:
 (02) 8289 6614

 Email:
 joel.herbert@planning.nsw.gov.au

Ms Nicole Dobbins Senior Environmental Advisor Wambo Coal Pty Ltd

By email: ndobbins@peabodyenergy.com

Dear Ms Dobbins,

#### Wambo Open Cut Coal Mine (DA 305-7-2003) Blast Management Plan

I refer to your letter dated 19 November 2019, requesting the Secretary's endorsement of a suitably qualified and experienced person to update the Blast Management Plan, following the recent modification (Mod 16) to development consent DA 305-7-2003.

The Department has reviewed the credentials of Mr Jeff Hanlon and agrees that he is suitably qualified and experienced.

In accordance with condition B38(a) of Schedule 2 of the above consent, the Secretary endorses the appointment of Mr Hanlon to prepare the plan.

Should you have any enquiries in relation to this matter, please contact Joel Herbert on the details listed above.

Yours sincerely,

Matthew Sprott Director Resource Assessments as nominee of the Secretary



Contact: Scott Brooks Phone: 6575 3401 Fax: 6575 3415 Email: <u>scott.brooks@planning.nsw.gv.au</u> Our ref: 305-7-2003

The General Manager Wambo Mine PMB 1 SINGLETON NSW 2330

Attention: Steve Peart

Dear Steve

### Wambo Coal – Approval of Blast Management Plan

Thank you for forwarding the Wambo Blast Management Plan and the Blast Fume Management Strategy and notification procedure as required under project approval DA 305-7-2003 for the Department's consideration.

The Department has reviewed these plans, and relevant attachments, and is satisfied that they generally address the requirements set out in the relevant conditions of the project approval. Consequently, I would like to advise you that the Secretary has approved the plan.

This Plan comes into force on the 30<sup>th</sup> November 2015 and remains in force until replaced by any future updated approved Plans.

Could you please forward finalised copies of the above plan (preferably in PDF format with a copy of this approval letter appended) for the Department's records by the end of November 2015.

If you require further information or clarification in this matter please contact Scott Brooks on 6575 3401 or by email to <a href="mailto:scott.brooks@planning.nsw.gov.au">scott.brooks@planning.nsw.gov.au</a>.

Yours sincerely

Scott Brooks Investigations (Lead), Compliance 2 7- 11- 2015 As Nominee for the Secretary, Planning & Environment

From: <u>Scott.Brooks@planning.nsw.gov.au</u> [mailto:Scott.Brooks@planning.nsw.gov.au]
Sent: Wednesday, 18 November 2015 12:12 PM
To: Peart, Steven D
Subject: Wambo Blast Management Plan\_Rev.5\_DRAFT.docx

Steve,

Please find attached a copy of the Wambo Blast Management Plan with comment.

Scott

DP&E comments on Wambo BMP summarised in the table below
--

Section	DP&E Comment	
5.2.2 Fume Incident	What is the registration process? Details of the Fume	
Notification	Incident Notification System will need to be provided as	
	discussed.	
5.4 Property Investigations	All references to the DG should be changed to Secretary	
5.5 Pre-Blast Meteorological	Where is the weather assessed. You will need to outline the	
Assessment	sources of the info for the assessment.	
	Most mines use a blast permissions page. Whilst this plan	
	may not need the exact permissions list, as it can vary from	
	time to time, we need to know it exists so we can check	
	against it, should an incident occur.	
5.11.2 Wambo Homestead	This is ambiguous. Monitoring is undertaken at the WHC for blasts	
	within 2km of the Complex.	
6.1 Meteorological	Do we now have a weather station at the north end of the	
Monitoring	Montrose pit? If so it should be stated that it will be available for	
	all blasts.	
9.1 Review	Can be 3 years	
	Should also refer to Condition 6 Schedule 6.	
9.5 Reportable	Whilst we do not need to be advised, you should conduct an	
Environmental Incidents	internal investigation if the blast is over 115dBL	

From: <u>Scott.Brooks@planning.nsw.gov.au</u> [mailto:Scott.Brooks@planning.nsw.gov.au] Sent: Thursday, 19 November 2015 7:53 AM To: Peart, Steven D Subject: Wambo Blast Fume Management Strategy\_Rev.2\_DRAFT.docx

Steve,

Please find attached blast fume management strategy comments.

Scott

#### DP&E comments on Wambo BFMS summarised in the table below

Section	DP&E Comment
2.3 Blast Fume Factors and Management	Most mines now choose a suitable blast day
Strategies	based on weather and schedule back from
	this time to know when to start loading.

Section	DP&E Comment				
	You may want to look at the Mt Arthur coal				
	fume management plan, as it has a number				
	of actions found to be successful.				
5.0 Emergency Response	Is this the same as the Fume Incident Notification				
	System described in the Blast Management Plan.				
	If so the names should be aligned.				
	This section should include the community				
	advice covered in the Blast Plan.				
6.0 Audit/Review	To be consistent with our notification				
	requirements this should say 4 or greater				



# WAMBO COAL PTY LIMITED

ABN 13 000 668 057

JERRY'S PLAINS ROAD, WARKWORTH, VIA SINGLETON NSW 2330 PMB 1 SINGLETON NSW 2330 TELEPHONE: 02 6570 2200 FAX: 02 6570 2290

12 July 2005

The Director-General Department of Infrastructure Planning & Natural Resources PO Box 3927 SYDNEY NSW 2001

Attention: Mr David Kitto

Dear Mr Kitto,

#### WAMBO COAL PTY LIMITED BLAST MONITORING PROGRAM

Pursuant to Development Consent (DA305-7-2003) dated February 2004, Wambo Coal Pty Limited (WCPL) are required to develop a Blast Monitoring Program approved by the Director-General of the Department of Infrastructure Planning and Natural Resources (DIPNR).

The specific requirement for the Monitoring Program is contained in Schedule 4, Conditions 18 and 19, of the above development consent, which state:

"18. The Applicant shall monitor the airblast overpressure and ground vibration impacts of the development at a minimum of four locations around the site.

19. Before carrying out any development, the Applicant shall prepare a Blast Monitoring Program for the development, in consultation with Department of Environment and Conservation, and to the satisfaction of the Director-General."

Please find attached the "Wambo Coal Pty Limited Blast Monitoring Program" dated July 2005 for your consideration.

I look forward to receiving your approval of the attached Monitoring Program at your earliest convenience. If you wish to discuss any aspects of the BMP further, please do not hesitate to contact me on 02 6570 2206.

Yours faithfully WAMBO COAL PTY LIMITED

Tony Sutherland Technical Services Manager

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# APPENDIX B BLAST FUME MANAGEMENT STRATEGY



# WAMBO COAL BLAST FUME MANAGEMENT STRATEGY

Document No. WA-ENV-MNP-507.1 November 2019



### **Document Control**

Document No.	WA-ENV-MNP-507.1
Title	Blast Fume Management Strategy
General Description	Responses and protocols for the minimisation of post blast fume generation
Document Owner	Environment & Community Manager

### Revisions

Rev No	Date	Description	Ву	Checked	Signature
1	Nov 2012	Original Draft	WCPL	TF	
2	Oct 2015	Review and update to ensure consistent with revised Blast Management Plan (BMP) (Version 5)-Draft for Submission to DP&E	WCPL, Palaris	SP	
3	Nov 2015	Updated to address DP&E comments on Rev. 2	WCPL	SP	
4	Nov 2019	Review and update to ensure consistent with revised Blast Management Plan (BMP) (Version 10)	WCPL	PJ	



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Blast Fume Management Strategy



## 1.0 Introduction

#### 1.1 Background

The Wambo Coal Mine (the Mine) is situated approximately 15 kilometres west of Singleton, near the village of Warkworth, New South Wales (**Figure 1**). Wambo is owned and operated by Wambo Coal Pty Limited (WCPL), a subsidiary of Peabody Energy Australia Pty Limited.

A range of open cut and underground mine operations have been conducted at WCPL since mining operations commenced in 1969. Mining under the current Development Consent (DA305-7-2003) commenced in 2004 and permits both open cut, underground operations and associated activities to be conducted.

The approved run-of-mine (ROM) coal production rate is 14.7 million tonnes per annum and all product coal is transported from WCPL by rail. A summary of the approved Wambo Coal Mine is provided in Table 1 of the WCPL Blast Management Plan (BMP).

This Blast Fume Management Strategy (BFMS) has been prepared in accordance with correspondence received from the NSW Department of Planning, Industry and Environment (DPIE), formerly known as the NSW Department of Planning and Infrastructure (DP&I), on 23 August 2012, outlining the general requirements under Stage 2 of the fume minimisation measures (**Attachment A**). Stage 1 of the fume mitigation measures involved the commencement of rating and recording blast fume events following on from the Blast Fume Workshop held in Singleton on 19 June 2012.

#### 1.2 Purpose

The purpose of this BFMS is to detail fume minimisation measures at the Mine for all surface blasting activities. The BFMS is an annexure to WCPL's BMP, a requirement of Condition B38 of DA305-7-2003.

The structure of the BFMS is aligned with the *Elements of a Blast Fume Management Strategy* as provided by DPIE on 23 August 2012, regarding procedures and fume mitigation measures for:

- Monitoring & Reporting
  - o Rating and Recording of Blast Fume Events
  - Reporting of Significant fume events
- Fume Mitigation
  - Geology
  - Meteorological Conditions
  - o Blast Design
  - Product Selection and Quality
  - o Blast Crew Education
  - On bench practices
- Emergency Response Procedures

Blast Fume Management Strategy



#### 1.3 Scope

The BFMS applies to all WCPL employees, contractors and sub-contractors, undertaking all or any surface blasting activities within WCPL's mining authorisations and approved mining areas (**Figure 2**).

### 1.4 Definitions

Definitions of specific technical terms used in the BFMS are detailed in **Table 1** below.

Term	Definition
ANFO	A mixture of ammonium nitrate and fuel oil with or without a dye colouring agent (Definition from AS2187.0)
Dynamic water	Water that is in motion (i.e. flowing water)
NOx (Oxides of Nitrogen)	A multiple combinations of oxides of nitrogen ( $N_2O_2$ , $NO$ , $NO_2$ , $N_2O_3$ , $N_2O_4$ , $N_2O_5$ ) with nitrogen dioxide ( $NO_2$ ) being the principle hazardous nitrous fume
Post Blast Fume	Gases generated by the detonation of explosives during blasting
Precursor	A material resulting from a chemical or physical change when two or more substances consisting of fuels and oxidisers are mixed is intended to be used exclusively in the production of an explosive. (Definition from AEMSC Code of Good Practice Precursors for Explosives, 1999).
Sleep Time	The time between explosives being loaded into a blast hole and their initiation (Definition from AS2187.0)
Wet holes	Drilled holes that contain water, have been dewatered or moisture is present in the base or walls

#### Table 1: Definitions





WAM-09-15\_EP Sth Bates\_Wambo Seam\_GW\_101A

Figure 1: Wambo Coal Regional Location

Blast Fume Management Strategy





Figure 2: Approved Wambo Coal Mine Layout

Blast Fume Management Strategy WA-ENV-MNP-507.1 Version: 4

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## 2.0 Blast Fume Mitigation

#### 2.1 Blast Process

WCPL has developed a blast process flowchart that summaries the various tasks involved in the blast process, who is responsible for those tasks and what quality assurance processes are in place for the task. This flowchart is provided in **Figure 3**.



Figure 3: Blast Process Flowchart



### 2.2 Blast Fume Mitigation Matrix

WCPL has developed a blast fume mitigation risk matrix for the Mine, which summarises the fume risk for each seam and the required fume mitigation controls to be implemented for those risks. This matrix is provided in **Table 2**.

Seam	D	escription	Width (m)	Process	Fume Risk (Low, Med, High)	Fume Mitigation Controls		
		Waste	30	Blast	High	<ul> <li>Appropriate powder factor</li> <li>Utilise gassed Titan 9070 with appropriate density Minimise sleep time</li> </ul>		
Seam		WWA	1.178					
ŇŎ		Partings						
/hybr		WWC	0.547	Free Dia		NotApplicable		
		Waste		Theo Dig		rocr, pprodulo		
		WWD1	0.2					
		Waste						
		WWD2	0.335					
Seam		Waste	6.845	Blast	Low			
		RCA	0.338					
		Waste	1.5					
ank		Partings						
edb		RCC	0.711	Free Dig		Not Applicable		
Ľ.		Partings	0.438					
		RCD	1.289					
		Waste	12	Blast	Low			
E		WRA	0.538	Free Dig		Not Applicable		
er Sea		Waste	11.685	Blast	Low			
Ride		WRC	0.442	Free Dig		Not Applicable		
Wambo/F		Waste	17.145	Blast	Med	<ul> <li>Dewatering the holes or use water resistant product</li> <li>Minimise sleep time</li> </ul>		
		WMA	2.031	Free Dig	Not Applicable			
ot Seam		Waste	15.5	Blast	Med	<ul> <li>Dewatering the holes or use water resistant product</li> <li>Minimise sleep time</li> </ul>		
Whyn		WTA	2.615	Free Dig		Not Applicable		

#### Table 2: Fume Mitigation Risk Matrix



### 2.3 Blast Fume Factors and Management Strategies

Many factors have been identified as contributing to post blast fume. A combination of these factors or any single factor may contribute to the production of post-blast fumes. These factors have been classified under the following categories and management strategies outlined in **Table 3**:

- Geology;
- Meteorological conditions;
- Blast design;
- Product selection and quality;
- Blast crew education; and
- On bench practices.



#### Table 3: Blast Fume Factors and Management Strategies

Category	Factor	Management Strategy		
Geology	Blasting in weak/soft strata (<20m of surface)	<ul> <li>Free dig where possible (drilled holes often fail) and the high moisture content in the clay band results in significant degrade of the AN structure)</li> </ul>		
	Faulted/fractured ground	<ul> <li>General practice is to stand off the faulted fractured ground by 1-4m. This is dependent on many factors.</li> <li>Geology should be noted and consideration made in the blast design</li> </ul>		
	High Clay content holes	<ul> <li>Load the 70 % emulsion product with appropriate powder factor</li> </ul>		
	Time between drilling & loading	<ul> <li>No correlation noted for holes loaded with varying delays after drilling, this does not include wet weather events or drilling in soft strata as these are considered under separate management strategies.</li> </ul>		
	Wet holes	<ul> <li>Dewatering drilled holes, check if the water is regenerating.</li> <li>Gas bag of hole to prevent product contact with wet base</li> <li>Use blast products suitable for wet conditions.</li> </ul>		
	Mud/sediment in base of holes	Where feasible gas bag toe of hole to prevent product contact with wet base		
Meteorological Conditions <sup>1</sup>	Rain Events and Strong Winds	<ul> <li>A pre-blast meteorological assessment will be completed periodically throughout the course of the day leading up to the scheduled time of the blast. The pre-blast meteorological assessment will consider wind speed and direction, however other meteorological conditions that may influence the impact of blasts on the community such as temperature inversions will also be considered.</li> <li>A meteorological and dispersion forecasting tool is actively used to identify the most favourable day, and time of day, for blast initiation. Opportunities are identified to reduce impacts on the local community.</li> </ul>		
		<ul> <li>Loaded shots affected by rain will be assessed by the Drill and Blast (D&amp;B) Engineer in consultation with the Shotfirers</li> <li>Where conditions are determined to be unfavourable, the blast will be delayed, postponed or cancelled until favourable meteorological conditions are observed.</li> </ul>		
Blast Design	Explosives desensitisation	<ul> <li>Depth can contribute to desensitisation and decked loading style applied, however the depth of drilled holes on the site does not exceed 40m and is therefore not considered a contributor to fume.</li> <li>Tie up &lt;125ms between the holes, no greater than 175ms</li> </ul>		
	Blast layout	Increased precision through GPS guided equipment.		
	Priming	Boosters placed at design depth RL		



Category	Factor	Management Strategy		
		Holes deeper than 15m are double primed to ensure full reaction of the column of bulk explosives.		
	Blast delays	Minimise sleep times of loaded shots where possible based on the manufacturers recommendations		
		<ul> <li>Fume risk when blasting outside of these parameters will be assessed by the D&amp;B Engineer in consultation with the Shotfirers and site management</li> </ul>		
Product	Blast contractor selected	Blast contractor selection included the following criteria:		
Selection and		<ul> <li>Local R&amp;D Team of Engineers to provide support on blast design and product selection</li> </ul>		
Quality	Explosive product selected	<ul> <li>Selections based on manufacturer's recommendations and consultation with the Blast Contractor</li> </ul>		
	Compliance to manufactures	The site D&B Engineer in consultation with the Blast Contractor will continue to monitor and		
	specifications	progress product application and management against manufacturer's specifications. This process will result in a defined site appeific blact product application		
		Confirmed by the Blast Contractor's Quality Control process inclusive of the following:		
	Explosives Quality	<ul> <li>MPU calibrations</li> </ul>		
		<ul> <li>Product samples collected for every MPU for each shot</li> </ul>		
		<ul> <li>Gassing rates and final density recorded on Delivery record</li> </ul>		
	Mixing of materials	Product mixed by MPU (calibrated and sampled)		
	Delivery system	MPU calibrated fortnightly at a minimum or as required.		
	Product rotation	Prill stored in Silos		
		Pre-delivery inspection		
		Visual inspection on arrival at site		
	Stemming materials &	<ul> <li>Stemming diameter 20 to 30mm (Inspected by Shottirer)</li> <li>Stemming donth determined by DPP Engineer dependent on individual blast conditions</li> </ul>		
	techniques	Sternining deput determined by D&B Engineer dependent on individual blast conditions		
	Loading sequence & technique	Loading procedure is driven by product selection and manufacturer's specifications.		
	Variation to blast plan	Any irregularities or variations to the blast plan are to be communicated by the shotfirers to the		
		D&B Engineer and, where relevant, in consultation with the Blast Contractor		
	QA & Auditing	Blast Contractor Auditing and Inspection Schedule		
Blast Crew	Qualifications of Blast Crew	<ul> <li>Compliance with site and statutory requirements, certified and appointed</li> </ul>		
Education		Blast Contractor Internal policy.     Training records maintained		
		Iraining records maintained     Packady and Plast Contractor encreter training overlap incorporates the following:		
	I raining requirements of	<ul> <li>Peabouy and blast contractor operator training system incorporates the following:</li> <li>Shotfirers permit</li> </ul>		
	Diast crew	<ul> <li>Security Clearance for blasting personnel</li> </ul>		
		<ul> <li>Training to open cut site requirements</li> </ul>		



Category	Factor	Management Strategy		
		<ul> <li>Product development and updates</li> </ul>		
		<ul> <li>Product Selection</li> <li>Bench practices</li> </ul>		
On Bench Practices	Bench drainage techniques	<ul> <li>Minimize surface water where possible</li> <li>Utilise hole savers</li> <li>Drains for re-directing water</li> </ul>		
	Sleep time	<ul> <li>Minimise sleep times of loaded shots where possible based on the manufacturers recommendations</li> <li>Fume risk when blasting outside of these parameters will be assessed by the D&amp;B Engineer in consultation with the Shotfirers and site management</li> </ul>		
	Shot inspections	Drill preparation, drilled shot, loading, firing		
	Slumping holes	<ul> <li>Loaded holes are checked by the shot crew and any slumping is reported to the D&amp;B Engineer</li> <li>If dynamic water is present or the holes are slumping the blast plan will be assessed by the D&amp;B Engineer. In this situation it can be decided to fire the shot earlier, not load all the holes or change the product to a more water resistant material. (abnormal circumstances)</li> </ul>		
	Drill hole location error tolerance	<ul> <li>Drill collar error tolerance 10-50cm</li> <li>Visual inspection, identify suspect holes and re-check by survey</li> <li>Re-drills are to be checked and re-drill approved by the D&amp;B Engineer</li> </ul>		

#### Notes:

1: There may be circumstances in which blast events need to be fired in less than ideal weather conditions. Failure to initiate blasts may indeed increase the potential for fume generation and or occupational health and safety risks to mine personnel. In these specific and rare circumstances, the final decision making process will be elevated to the General Manager position (or in their absence, to the delegated authority) with relevant input from D&B Engineer, Shot Firer and Environment and Community (E&C) Manager.



## 3.0 Monitoring and Reporting

Section 6 of WCPL's BMP details WCPL's Blast Monitoring Program, which has been developed in accordance with the requirements of DA305-7-2003 and WCPL's Environment Protection Licence 529. All blasts at the Mine are monitored for overpressure, ground vibration and visually recorded using video equipment (**Section 3.2**). Meteorological conditions are also monitored and assessed prior to and during blasts.

Reporting of blast results, non-compliances and incidents is undertaken in accordance with Section 9 of the WCPL BMP.

#### 3.1 Pre-Blast Fume Risk Assessment

The potential for blast fume will be considered at the following stages of the Blasting Process:

- Preliminary Design;
- Final Design; and
- Blast Clearance Maps.

A Blast Pack will be developed for each blast and contain all relevant records associated with the design and quality assurance process for each individual shot. A Pre-blast Fume Risk Assessment will be completed prior to each blast as part of the Pre-blast Checklist.

#### 3.2 Rating and Recording of Blast Fume Events

In accordance with Stage 1 of fume minimisation measures, all blasts at Wambo are fume rated applying the Fume Ratings in **Attachment B**. In the case of a fume event, video recording of the blast events is utilised to assist in the determination of an appropriate fume ranking for reporting purposes.

All surface blasts in the open cut will be video recorded to capture the post blast environment. The video camera will be manned where possible in order to follow the path of any fume generated. All videos will be a minimum duration of 1 minute following the blast event or until the fume dissipates, leaves the site or the view of the camera. Video footage will be stored for a minimum of 1 year on site.

Each blast will be ranked when fume is at its greatest extent using the Australian Explosives Industry Safety Group (AEISG) ranking provided in **Attachment B** and all written records kept for a minimum of 2 years.

#### 3.3 Reporting of Significant Blast Fume Events

Blast fume events, as identified from the fume ranking table in **Attachment B**, will be reported by WCPL's E&C Manager (or delegate) to the DPIE Singleton Compliance Office in accordance with WCPL's Pollution Incident Response Management Plan (*PIRMP*) for an event which is a:

- Rating 3 fume event that leaves the project approval boundary or closed portion of public road; or
- All Rating 4 or 5 fume events.



## 4.0 Training and Competence

All training associated with the BFMS is undertaken pursuant to WCPL's Training and Competency Management Plan.

Tool box talks are undertaken with relevant employees and contractors as required, including during reviews of the BFMS. Evidence of participation in these tool box talks is documented in accordance with the WCPL Training and Competency Management Plan. Upon scheduled reviews or authorised changes to the BFMS, additional tool box talks and documentation of participants will be undertaken.

## 5.0 Emergency Response

In the unlikely event of a major fume generation event, site personnel will be notified via the Mine's Emergency Response Procedure. Fume events with a material and not a trivial risk to harm the environment shall be reported immediately without delay as described in the WCPL Fume Incident Notification Procedure (WA-ENV-PRO-507.2) (refer Appendix C of the BMP) and WCPL PIRMP.

The Environment and Community (E&C) Manager (or delegate) will notify affected landholders of the potential fume event approaching their property and to proceed with measures to avoid potential exposure to the blast fume. Current contact details for landholders who may potentially be impacted by a blast fume event at the Mine are detailed in Section 3.4 of WCPL's Fume Incident Notification Procedure (WA-ENV-PRO-507.2).

### 6.0 Audit/Review

The BFMS will be reviewed:

- During each review of the BMP (refer to Section 9.1 of the BMP); and/or
- Following any blast event:
  - o Rated 4 or greater produced from a blast event, or
  - With a rating of 3 which leaves the project approval boundaries or a closed portion of public road.



# 7.0 Responsibilities

**Table 4** below summarises responsibilities documented in the BFMS. Responsibilities may be delegated as required.

No	Task	Responsibility	Timing
1	Ensure resources are available to WCPL personnel to facilitate the completion of responsibilities under this BFMS	General Manager	As required
2	Ensure that all process and procedures under this BFMS and all other relevant management plans in relation to Blast events are followed	D&B Engineer	As required
3	Ensure that all relevant personnel have reviewed the BFMS and any amendments to the BFMS	D&B Supervisor	As required
4	Ensure BFMS is implemented across all relevant personnel	E&C Manager	As required
5	Liaise with all relevant stakeholders, including external regulatory bodies, regarding all aspects of the BFMS	E&C Manager	As required
6	Ensure that the community is informed via the Blasting Information Hotline and the Peabody Wambo SMS blasting notification messaging service of a blast event	E&C Manager	by COB the day before the blast
7	Investigate and report to all relevant stakeholders of any fume generated events which are required under this BFMS and any other relevant approved management plan	E&C Manager	As required

#### Table 4: BFMS Responsibilities



### 8.0 References

- Development Consent (DA305-7-2003)
- WCPL Environment Protection Licence (529)
- Australian Explosives Industry and Safety Group (AEISG) Code of Practice -Prevention and Management of Blast Generated NOx Gases in Surface Blasting (Edition 2. August 2011)
- Queensland Government Queensland Guidance Note *Management of Oxides of Nitrogen (No2) in Open Cut Blasting* (QGN 19. Version 1. 31 May 2011)
- Australian Explosives Manufacturers Safety Committee (AEMSC) Code of Good Practice - Precursors for Explosives (Edition 1. 1999)
- NSW DPIE *Elements of a Blast Fume Management Strategy* (23 August 2012)
- AS 2187.0 –1983: Storage transport and use Terminology
- AS 2187.1 1998: Explosives Storage, Transport and Use, Part 1 Storage
- AS 2187.2 2006: Explosives Storage, Transport and Use, Part 2 Use of Explosives
- WCPL Blast Management Plan (WA-ENV-MNP-507)
- WCPL Fume Incident Notification Procedure (WA-ENV-PRO-507.2)
- WCPL Pollution Incident Response Management Plan
# ATTACHMENT A CONSULTATION



Contact: Scott Brooks Phone: (02) 6575 3401 Fax: (02) 6575 3415 Email: scott.brooks@planning.nsw.gov.au

Mr Peter Baker General Manager Wambo Mine PMB 1 Singleton NSW 2330

Dear Mr Baker

#### Blast Fume Management Strategy

I refer to the Blast Fume Workshop held in Singleton on 19 June 2012 and the Department's letter dated 26 June 2012 requesting the Upper Hunter mines commence rating and recording blast fume events from 2 July 2012 as the first stage of fume minimisation measures.

The purpose of this letter is to now request that mines commence the second stage of the proposed minimisation measures by submitting a Blast Fume Management Strategy for approval, within three months from the date of this letter. The suggested minimum requirements for the Strategy, listed in Attachment 1, have been amended in consideration of industry comments from the above Workshop.

It is intended that each mine's Blast Fume Management Strategy, once approved, would be annexed to the mine's Blast Management Plan or, in the absence of a Blast Management Plan, to an appropriate operational management plan.

I appreciate your co-operation in developing and implementing a strategy to minimise amenity impacts from blast fume.

If you wish to further discuss this matter, please call the Department's Singleton office on 6575 3405.

Yours sincerely 23. 6.12 Chris Wilson

Executive Director Major Projects Assessment

Attachment: Elements of a Blast Fume Management Strategy

cc. Environment Protection Authority Department of Trade and Investment, Regional Infrastructure and Services NSW Health NSW Minerals Council

Department of Planning & Infrastructure 22-33 Bridge Street Sydney NSW 2000 | GPO Box 39 Sydney NSW 2001 | T 02 9228 6111 | F 62 9228 6455 | www.planning.nsw.gov.au

#### ATTACHMENT 1: Elements of a Blast Fume Management Strategy

For the Blast Fume Management Strategy to be effective it will need to comprehensively address all the known factors that can affect the generation of fume. Further, it will need to address how post blast fume is rated and reported. Please find below suggestions for sources of information and topics to be included in your Blast Fume Management Strategy. These suggestions form minimum requirements for topics to be included in the Management Strategy. Mines are encouraged to enhance or add to these topics in drafting their Management Strategies based on operational experience and continuing research.

- <u>Rating and recording of blast fume events</u> (as requested in the Department's 26 June 2012 letter)
- Rate and record the fume characteristics of all shots using the rating system in Appendices 2 and 3 of the Australian Explosives Industry and Safety Group Inc Code of Practice titled "Prevention and Management of Blast Generated NOx Gases in Surface Blasting, Edition 2, August 2011\* (the "AEISG Code") available at <a href="http://aeisg.org.au/index.php/cop.html">http://aeisg.org.au/index.php/cop.html</a>. This includes all blasts even if there is no visible post blast fume. The fume is to be rated when it is at its greatest extent. Further information is also available from the Queensland Dept of Employment, Economic Development and Innovation at: <a href="http://mines.industry.gld.gov.au/safety-and-health/631.htm">http://mines.industry.gld.gov.au/safety-and-health/631.htm</a>.
- Records of fume ratings are to be kept on the mine site. The Department may
  take up the option of reviewing and discussing these results with the mine from
  time to time. Written records are to be kept for a minimum of 2 years. It is
  intended that these records would not currently be placed on the company's
  website.
- Video record each blast where a risk of post blast fume is identified. The forthcoming blast fume management strategy would define when such a risk is likely to occur.
- All video footage is to be stored for at least 1 year. All videos should be a
  minimum duration of 1 minute following the blast and should capture any post
  blast fume until the fume dissipates, leaves the site, or leaves the view of the
  camera.
- The rating and recording of post blast fume is to be kept from 2 July 2012.

Additional suggestions:

2

- When video recording fume events, suggest keeping the camera in one place and using the zoom to follow the fume, if necessary.
- A camera on the mine boundary could be helpful to confirm whether the fume extends beyond the mine site.

#### 2. Reporting significant fume events to the Department

- Notify the Department of Planning and Infrastructure compliance office in Singleton of any blast producing post blast fume that rates 3 at it highest extent and leaves the site (see definition below), and any blast that rates 4 or 5. It is not the intention that all shots required to be reported will require a formal incident report, as this will depend on a number of factors. Within this report the quantity of explosive and / or the number of blast holes should be included. The purpose of this is to provide a guide to size the fume event;
- Site includes any active mine site's project approval boundary and any closed portion of public road.

Developing a management plan to minimise fume emissions by addressing those factors known to contribute to fume generation. The following should be considered.

#### Geology

3

3.

- A risk matrix for the site should be established based on geology and past blasting outcomes, then used as a guide for shot size, sleep time and product selection. The risk matrix will require frequent updating and as such should form a sub set of the Management Strategy;
- Blasting in weak and soft strata (primarily within approx 20m of surface);
- Areas known to contain a high incidence of faulted/fractured ground;
- Holes with high clay content;
- Time between drilling and loading;
- Ground movement/product desensitization;
- Industry has recognised that wet holes should be defined as those which contain water, have been dewatered or holes where moisture is present in the base or walls. The Management Strategy will need to define "wet" and "dry" holes so their different management requirements can be identified;
- Mud/sediment in the base of holes.

#### Meteorological conditions

- Meteorological forecasting for storms, rain events, strong winds and inversions;
- If rain is forecast what precautions are planned.

#### Blast Design

Explosives desensitization;

- · Blast layout and delays;
- Priming.

#### Product Selection, Quality and Blast Crew Education

- · Choice of explosive product;
- Compliance with manufacturers recommendations and procedure for variations to manufacturers recommendations;
- · Education and training on product selection and bench practices;
- · How and where the blasting products are used;
- Explosive quality, QA and auditing, mixing of materials, delivery system, contractor, product rotation, etc;
- · Stemming materials and techniques;
- Loading sequence and techniques;
- · Product variation from approved blast plan.

**On Bench Practices** 

- Bench drainage techniques;
- Sleep time taking into account a number of different hole conditions or forecast weather and a maximum sleep time for each product;
- · Process for exceeding recommended or maximum sleep times;
- Inspection regime of sleeping shots;
- Management of slumping of holes;
- Tolerance of error allowable for the location of the drill holes.

#### Emergency response procedures

 Fume events with a material risk of harm to the environment should be addressed under statutory emergency response procedures, such as a "pollution incident response plan" consistent with EPA Environmental Guidelines: Preparation of pollution incident response management plans (March 2012).



Contact: Scott Brooks Phone: 6575 3401 Fax: 6575 3415 Email: <u>scott.brooks@planning.nsw.gv.au</u> Our ref: 305-7-2003

The General Manager Wambo Mine PMB 1 SINGLETON NSW 2330

Attention: Steve Peart

Dear Steve

#### Wambo Coal – Approval of Blast Management Plan

Thank you for forwarding the Wambo Blast Management Plan and the Blast Fume Management Strategy and notification procedure as required under project approval DA 305-7-2003 for the Department's consideration.

The Department has reviewed these plans, and relevant attachments, and is satisfied that they generally address the requirements set out in the relevant conditions of the project approval. Consequently, I would like to advise you that the Secretary has approved the plan.

This Plan comes into force on the 30<sup>th</sup> November 2015 and remains in force until replaced by any future updated approved Plans.

Could you please forward finalised copies of the above plan (preferably in PDF format with a copy of this approval letter appended) for the Department's records by the end of November 2015.

If you require further information or clarification in this matter please contact Scott Brooks on 6575-3401 or by email to <a href="mailto:scott.brooks@planning.nsw.gov.au">scott.brooks@planning.nsw.gov.au</a>.

Yours sincerely

Scott Brooks Investigations (Lead), Compliance 2 7 - 11 - 2015 As Nominee for the Secretary, Planning & Environment

# ATTACHMENT B AEISG FUME RANKING

Level	Typical Appearance					
Level 0 No NOx gas						
Level 1 Slight NOx gas	and the second second					
1A Localised	and the second second					
1B Medium	- sales and a					
1C Extensive						
Level 2 Minor yellow/orange gas						
2A Localised						
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# APPENDIX C FUME INCIDENT NOTIFICATION PROCEDURE



# WAMBO COAL FUME INCIDENT NOTIFICATION PROCEDURE

Document No. WA-ENV-PRO-507.2 November 2019



### **Document Control**

Document No.	WA-ENV-PRO-507.2
Title	Fume Incident Notification Procedure
General Description	Blast Fume Management at WCPL
Document Owner	Environment & Community Manager

#### Revisions

Rev No	Date	Description	Ву	Checked	Signature
1	Nov 2015	Original Draft as part of Blast Management Plan	Steve Peart	Geoff Moore	
2	Nov 2019	Review and update to ensure consistent with revised Blast Management Plan (BMP) (Version 10)	WCPL	PJ	



### 1.0 Purpose

The purpose of this Fume Incident Notification Procedure is to provide a process for notifying community members who are predicted to be impacted by a fume event following initiation of a blast.

### 2.0 Scope

This Fume Incident Notification Procedure relates to all blasting activities undertaken at WCPL. The Fume Incident Notification Procedure forms part of WCPL's Blast Management Plan (BMP) and Blast Fume Management Strategy (BFMS).

### 3.0 Procedure

#### 3.1 **Prior to Blast Initiation**

- 1. The Drill and Blast (D&B) Engineer is to nominate and assign responsibility to a designated "Community Response Coordinator" prior to each blast
- 2. Prior to and during all blasts, the "Community Response Coordinator" must maintain positive communication with the Blast Controller
- The "Community Response Coordinator" must logon to the Blast Notification System (SMSer) and prepare for initiation of the Fume Incident Notification (Section 3.2)

### 3.2 Following Blast Initiation

- 1. The Blast Controller is to assess blast fume generation and plume migration
- 2. Where blast fume is likely to disperse offsite towards neighbouring properties, the Blast Controller must immediately notify the "Community Response Coordinator"
- 3. The notification should be to effect that "...blast fume has been generated and appears to be migrating in a northerly (or alternate) direction with the potential to impact on neighbouring properties"
- 4. The "Community Response Coordinator" must immediately send the Fume Incident Notification (**Section 3.3**)
- 5. The "Community Response Coordinator" must record the date, time and relevant details of both internal and external notifications



### 3.3 Fume Incident Notification (SMSer)

1. Login into <u>http://www.smsertech.com</u>

Username: wambocommunity@peabodyenergy.com Password: wambocoal

- 2. Select "Groups"
- 3. Select the required group based on the predicted direction of travel of the fume. The predicted direction of travel should be based on the wind direction during the pre-blast weather assessment
- 4. Select "Compose"
- 5. Select "Use Message Template"
- 6. Select "Fume Incident Notification"
- 7. Update "time" and "date" of the blast, and "direction" of travel of the fume
- 8. Select "send standard message"
- 9. Log Out of SMSer once notification has been sent.









### 3.4 Action to be taken if the SMSer service is unavailable

 In the event that the SMSer service is inoperable, the "Community Response Coordinator" is to contact affected neighbours in **Table 1** (North) or **Table 2** (South) in descending order, stating the following:

"Wambo Coal has just initiated a blast. A blast plume is potentially headed in your direction. Please take all precautionary measures to move out of the plume's path. We recommend you head indoors, and close all doors and windows until the plume passes. We are in the process of notifying a number of residents and appreciate your understanding. We will be in contact again once the plume has dispersed"



# 4.0 Responsibilities

No	Task	Responsibility	Timing
1	Nominating and assigning responsibility to a designated "Community Response Coordinator"	D&B Engineer	Prior to and during each blast event
2	Notifying the "Community Response Coordinator" of a blast fume event that is likely to disperse offsite towards neighbouring properties	Blast Controller	Immediately following each blast
3	Sending the Fume Incident Notification	Community Response Coordinator	As required
4	Recording all details including date and time of the Fume Incident Notification	Community Response Coordinator	After sending the Fume Incident Notification
5	Maintaining and updating the contact details in the online Fume Incident Notification System (SMSer) and in Table 1 and Table 2	Environment & Community Manager	As contact details change

# APPENDIX D ROAD CLOSURE MANAGEMENT PROCEDURE



# WAMBO COAL ROAD CLOSURE MANAGEMENT PROCEDURE

Document No. WA-ENV-PRO-507.3

November 2019



### **Document Control**

Document No.	WA-ENV-PRO-507.3							
Title	Road Closure Management Procedure							
General Description	Management procedure for road closure and traffic management plan when blasting is within 500m of the Golden Highway							
Document Owner	Environment & Community Manager							

### Revisions

Rev No	Date	Description	Ву	Checked	Signature
1	June 2017	Original Draft	Nicole Dobbins	SP	
2	December 2017	Revision to include emergency services contact details and renewed ROL	Nicole Dobbins	SP	
3	September 2018	Renewed ROL and revised flowchart	Nicole Dobbins		
4	March 2019	Renewed ROL and revised figure	Nicole Dobbins	PJ	
5	Nov 2019	Review and update to ensure consistent with revised Blast Management Plan (BMP) (Version 10)	WCPL	PJ	



### 1.0 Purpose

To provide a management procedure for the temporary closure of public roads whenever blasting is within 500m and may present a risk to road users. Once approved, the procedure will form a component of the Wambo Coal (WCPL) Blast Management Plan.

The procedure is required to address various conditions in relation to blasting within 500m of public roads contained in Part B of the WCPL Development Consent DA305-7-2003 (the Development Consent).

### 2.0 Scope

This Road Closure Management Procedure relates to the closure of a section of the Golden Highway which has been identified as the only public road within 500 m of blasting activities at WCPL (see **Appendix A**).

### 3.0 Regulatory Consultation and Approval

Consultation for road closure was undertaken with the Road and Maritime Services (RMS) and Singleton Council as required by the Development Consent. A copy of the Approval for road closure is included in **Appendix B**.

### 4.0 Procedure

The Drill and Blast Engineer will determine the need for road closure based on the separation distance between the proposed blast location and the Golden Highway. If the Golden Highway is located within the 500m exclusion zone (as outlined in **Appendix A**), then temporary road closure will be required. It is anticipated that delays on the Golden Highway will be approximately 10 minutes.

### 4.1 Notification

Where blasting is to take place within 500m of the Golden Highway, the following notifications will take place.

1. When timing permits, WCPL (Drill and Blast Engineer) will advertise the temporary road closures in the local newspaper, the Singleton Argus, prior to blasting.

Note: The Singleton Argus is published once per week on Wednesdays, the cut-off for advertisements is 11am Tuesday.

2. WCPL (Drill and Blast Engineer) will email all interested parties (including the community, Emergency Services and neighbouring mines) of a scheduled road closure five days prior to blasting. The contact details for Emergency Services notifications are provided in **Table 1**.



Emergency Service	Details for Notification				
Singleton Fire and Rescue	<u>bruce.ambrose@fire.nsw.gov.au</u> joseph.adamthwaite@fire.nsw.gov.au jon.deaves@fire.nsw.gov.au				
NSW Ambulance Services	AMBULANCE-HNESector@health.nsw.gov.au				
Singleton Police	deng1chr@police.nsw.gov.au				
State Emergency Services	occ@ses.nsw.gov.au				

#### Table 1: Contact Details for Local Emergency Services

- Singleton Council will be notified at least one day prior to the blast at <u>ssc@singleton.nsw.gov.au</u>. Emergency services and neighbouring mines will also be notified one day prior to the blast.
- 4. WCPL will update the Blasting Hotline 24hrs prior to the scheduled blast event and advise of road closure.
- 5. Permanent signage will be erected on the Golden Highway, in a format similar to that outlined in **Appendix C**. Signage will be updated to advise regular users of the likely time, date and duration of road closure, not less than five days prior to blasting.
- 6. Traffic control will be notified at least two days prior to the blast.
- The Transport for NSW, Transport Management Centre will be notified prior to installing traffic control and after removing it at <u>myrol.transport.nsw.gov.au</u> (or at 1800 679 782). The Road Occupancy Licence number (refer to **Appendix B**) will be quoted at this time.

### 4.2 Restrictions

The Development Consent (Part B) imposes the following restrictions on blasting:

- 1. A ground vibration limit of 100mm/sec on public roads and 50mm/sec on all other public infrastructure (Condition B22);
- 2. A ground vibration limit of 0.5mm/s within 500m of any public road unless a written agreement is in place with the infrastructure or landowner (Condition B32);
- Blasting may only be carried out between 9am and 5pm Monday to Saturday (Condition B24);
- 4. Blasting is not permitted on Sundays; public holidays or any other time without the written approval of the Planning Secretary (Condition B24). Approval is also required from the EPA, in accordance with Condition L5.1 of Environment Protection Licence 529;
- 5. Minimise the frequency and duration of public road closures and use all reasonable efforts to avoid road closures during peak traffic periods (Condition B30c); and
- 6. One blast per day is allowed within 500 m of Wallaby Scrub Road or the Golden Highway (Condition B31).

Blasting is also restricted during adverse meteorological conditions to minimise potential impacts on private landowners.

Blasting notifications will continue to be sent to neighbouring mines to minimise cumulative blasting impacts to the local community.



### 4.3 Temporary Road Closure

- Traffic control will be carried out in accordance with Road and Maritime Services (RMS) approval conditions and the RTA '*Traffic Control at Worksites Version 4*" 2010 (or the latest version). WCPL will also consider the requirements of the *Roads Act* 1993 No 33.
- Traffic control stations will be established in accordance with the Traffic Control Plan presented in Appendix C. The Transport for NSW, Traffic Management Centre to be notified prior to installing traffic control.
- 3. Traffic controllers will be certified by the RMS and used for all road closures. They will be familiar with the road closure procedures, wear appropriate reflective or protective equipment and carry a hand held radio on the WCPL mine site frequency.
- 4. Traffic controllers (or sentries) will travel to the road closure points and place all necessary signage in positions in accordance with **Appendix C** at least thirty minutes prior to the anticipated firing time. Once all signage is in place, the traffic controller will inform the Drill and Blast Engineer and await further instruction.
- 5. Traffic controllers (or sentries) will maintain positive radio contact with the Drill and Blast Engineer until the blast has been cleared. Traffic controllers will be familiar with the site specific WCPL shot firing procedures (as outlined in the Blast Management Plan).
- 6. The Drill and Blast Engineer will advise the traffic controller when to close the road. All traffic and personnel will be cleared from the affected area and the Drill and Blast Engineer informed when this has been completed.
- 7. All traffic is to be halted for the duration of the blast. Access by emergency vehicles or inadvertent access is addressed in **Section 4.4**.
- 8. It is anticipated the road will be closed for approximately 10 minutes on each occasion.
- 9. Traffic controllers (or sentries) will not reopen the road until informed by the Drill and Blast Engineer that it is safe to do so. Prior to reopening, an inspection of the road will be undertaken by WCPL (or other approved) personnel to check for fly rock and other hazards.
- 10. Once the blast has been cleared and the road inspected, the road can be reopened and the signage removed.
- 11. The Transport for NSW, Traffic Management Centre to be notified once the road is reopened.

A summary flowchart for the temporary Road Closure Management Procedure is presented in **Appendix D**.

#### 4.4 Access for Emergency Vehicle or Inadvertent Access

- 1. Traffic controllers (or sentries) may break radio silence and inform the Drill and Blast Engineer if access is required for emergency (or other) vehicles once shot firing is in progress.
- 2. If the blast can be halted, emergency (or other) vehicles can be allowed to pass with an escort, and the shot firing recommenced once the road is clear and secured.



3. Alternatively, emergency services vehicles will be escorted through the road closure section, post blast as soon as the route is made safe.

### 4.5 Shot Firing Procedure

The shot firer will fire the blast in accordance with the WCPL Blast Management Plan and other internal blasting and environmental procedures. The following exceptions apply:

- 1. Blasting will not take place at times when adverse conditions (or other prevailing conditions) make road closure hazardous.
- 2. Blasts requiring the closure of the Golden Highway will be tied up on the day of firing and must not be left tied up overnight.
- 3. If a misfire is identified during the post blast inspection, while the Golden Highway is closed, the following process will be invoked.
  - a. If the blast needs to be immediately re-fired for safety reasons, the road may be re-opened after appropriate inspection to allow traffic flow for the duration of the reset period and closed again to fire the secondary shot; or
  - b. If the misfire is not a threat to safety, it will be treated as a separate blast in order to prevent lengthy road closures.

### 5.0 Responsibilities

**Table 2** below summarises responsibilities documented in this procedure. Responsibilitiesmay be delegated as required.

No	Task	Responsibility	Timing
1	Permanent blast signage to be erected on the Golden Highway	Drill and Blast Engineer	One week prior to blasting event within 500 m of public road
2	<ul> <li>Ensure road closures are conducted in accordance with the conditions of the Road Occupancy Licence and blasting is conducted:</li> <li>between 9am and 5pm Monday to Saturday;</li> <li>not on Sundays or public holidays or any other time without the written approval of the EPA and the DPIE Planning Secretary; and</li> <li>not during peak traffic periods.</li> </ul>	Drill and Blast Engineer and Environment and Community Manager	Ongoing
3	Ensure not more than one blast per day is undertaken within 500m of the Golden Highway.	Drill and Blast Engineer	Ongoing
4	Advertisement in the Singleton Argus of scheduled road closures	Drill and Blast Engineer	Prior to the Singleton Argus publishing – currently once per week

#### Table 2: Responsibilities



No	Task	Responsibility	Timing
5	Inform neighbouring mines, community and emergency services of scheduled road closure due to blasting	Drill and Blast Engineer	5 days prior to blast
6	Inform neighbouring mines and emergency services of scheduled road closure due to blasting	Drill and Blast Engineer	1 day prior to blast
7	Update permanent signage on the Golden Highway of upcoming road closures	Drill and Blast Engineer	5 days prior to blast
8	Inform traffic control operators of road closure requirements	Drill and Blast Engineer	2 days prior to event
9	Transport for NSW, Transport Management Centre notified of road closure and reopening of road	Road Traffic Controller	Prior to and following blasting
10	Ensure traffic controllers are certified by the RMS	Drill and Blast Engineer	Prior to Engagement



**APPENDIX A** Indicative Blasting Exclusion Zones





Wambo Coal - Indicative Blasting Exclusion Zones to December 2020



### APPENDIX B

Approval for Road Closure



### LICENCE NO : 1365906

**ROADS & MARITIME SERVICES (RMS)** 

#### Phone: 1300 656 371 Monday To Friday 8.30 AM - 4.30 PM

To activate and deactivate your approved work shift(s) on your Road Occupancy Licence, please visit: myrol.transport.nsw.gov.au. This licence is for the occupation of the road space only. If you are unable to access myrol.transport.nsw.gov.au, please call TMC on 1800 679 782. For further assistance, please refer to the proponent's user manual here: myrol.transport.nsw.gov.au/help.pdf

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Prov         Management:         Stop / Slow Control         From:         01-Apr-2020           Closure LaneQi:         Shoulder         30-Sep-2020           Direction(s):         Eastbound and Westbound         Shoulder           Image: main and provide management:         Shoulder         Shoulder         Shoulder           Image: main and provide management:         Shoulder         Shoulder         Shoulder           Image: management:         Shoulder         Shoulder         Shoulder         Shoulder           Image: management:         Shoulder         Shoulder         Shoulder         Shoulder         Shoulder           Image: management:         Shoulder         Shoulder         Shoulder         Shoulder	TR	AFFIC MANAG	GEMENT	LICENCI			N						
Closure Type:         All lanes both directions         To:         30-Sep-2020           Closure Lane(9:         Shoulder           Direction(9:         Eastbound and Westbound           LICENCE CONDITIONS         Form Shit         To         To           1         YOU MUST USE SHIFT ACTIVATION WEB ADDRESS         From D         M         Time         To         D         M           2         THIS JUCENCE IS NOT AN APPROVAL OF THE PROPONENTS TRAFFIC CONTROL PLANS COMPLY WITH ASI742.3         Sat 04         Apr 09:00         -         Two 0         Apr 17:00           2         THIS LICENCE IS NOT AN APPROVAL OF THE PROPONENTS TRAFFIC CONTROL PLANS COMPLY WITH ASI742.3         Sat 04         Apr 09:00         -         Tue 07         Apr 17:00           3         ALL MATTERS RELATING TO NOISE GENERATION OR OTHER MING ONE COLLAC CONTROL PLANS COMPLY WITH ASI742.3         Sat 04         Apr 09:00         -         Tue 07         Apr 17:00           4D GUTTERD DETALE FOR DASSETS OR THE REMOVAL OF KERB AND OUTHOR THE PROPOSED WORKS INVOLVE UNDERRORING OR EXAVATION OF STATE ROAD ASSETS OR THE REMOVAL OF KERB AND 09:00         Sat 11         Apr 09:00         -         Tue 07         Apr 17:00           5 NOTIFICATION TO AFFECTED BUSINESSES APE MANAGEMENT BRANCH.5         Sat 11         Apr 09:00         -         Tue 07         Apr 17:00           6 NOTIFICA	Flo	w Management:	Stop / Slow Control	From:		01	-Apr-20	)20					
Closure Lane(s):         Shoulder           Direction(s):         Eastbound and Westbound           LICENCE CONDITIONS         APPROVED CALS S TIMES           1         YOU MUST USE SHIFT ACTIVATION WEB ADDRESS           https://myunultansport.nsw gov.au 10 ACTIVATE AND DEACTIVATE YOUR APPROVED ROAD OCCUPANCY LICENCE(s), ITO CHANGE TRAFFIC CONTROL PLAN, PLEASE NOTE WORKOCVER REQUIRES THAT           1         YOU MUST USE SHIFT ACTIVATION WEB ADDRESS           1         YOU MUST USE SHIFT ACTIVATION WEB ADDRESS           1         YOU MUST USE SHIFT ACTIVATION WEB ADDRESS           1         YOU MUST USE SHIFT ACTIVATIE AND DEACTIVATE YOUR APPROVED ROAD OCCUPANCY LICENCE(s), ITO CHASHING YELLOW OR TO ACTIVATE PERMANENT VARIABLE MESSAGE SIGNS DIAL 1800 679 782)           2         THIS LICENCE IS NOT TAN APPROVAL OF THE PROPONENTS TRAFFIC CONTROL PLAN, PLEASE NOTE WORKCOVER REQUIRES THAT           3         ALL MATTERS RELATING TO NOISE GENERATION OR OTHER ENVIRONMENTAL FACTORS ON SITE ARE LUNDER THE UNRISPICITION OF THE LOCAL COUNCIL AND/OR THE ENVIRONMENTAL PROTECTION AUTHORTY.           4         SHOULD THE PROPOSED WORKS INVOLVE UNDERBORING OR EXCAVATION OF STATE FOAD ASSET SO THE REMOVAL OF KRB AND GUTTER, DETAILS OF WORKS INVOLVE UNDERBORING OR EXCAVATION OF AFFECTED DUSINESSES, RESIDENTS AND OTHER, STAKEHOLBERS MUST BE UNDERTACHEN AT LEAST 5 BUSINESS DAYS PRIOR TO WORKS COMMENCING           5         STAKEHOLBERS MUST BE UNDERTACH AN LEAST 5 BUSINESS DAYS STAKEHOLBERS MUST BE UNDERTACHACH.           5         APP 09:00         T	Clo	sure Type:	All lanes both directions	To:		30	-Sep-20	020					
Direction(s):         Eastbound and Westbound           Licence Conductions 1 YOU MUST USE SHIFT ACTIVATION WEB ADDRESS https://myrol.transport.nsw.gov.au TO ACTIVATE AND DEACTIVATE YOUR APPROVED FORAD COLLEGANCE TRAFFICE CONTROL PLANCY LICENCE(S), ITO CHANGE TRAFFICE CONTROL PLANCY LICENCES(S), TO CHANGE TRAFFICE CONTROL PLANCY LICENCES(S), TO CHANGE TRAFFICE CONTROL PLANCY LICENCES(S), TO CHANGE TRAFFICE CONTROL PLANS COMPLY WITH ASTA2.3               Frit 03 Apr 09:00             -             True             01             Apr 09:00             -             True             07             ALL MATTERS RELATING TO NOISE GENERATION OR OTHER ENVIRONMENTAL FACTORS ON SITE ARE UNDER THE JURISDRICTION AULIVERONT OF STATE FORD ASSETS OR THE REMOVAL OF KERB RMSS ASSET             MANAGEMENT BRANCH.            5         NOTFICATION TO STATE FORD ASSETS OR THE REMOVAL OF KERB RMSS ASSET MANAGEMENT BRANCH.               Frit             10             Apr             70:00             -             True             07             Apr             09:00             -             Tru             07             Apr             09:00             -             Tru             07             Apr             09:00             -             Tru             07             Apr             09:00	Clo	sure Lane(s):	Shoulder										
LICENCE CONDITIONS         APPROVED DATES & TIMES           1         YOU MUST USE SHIFT ACTIVATION WEB ADDRESS https://myroit/mansport.nsw.gov.au TO ACTIVATE AND DEACTIVATE YOUR APPROVED ROAD OCCUPANCY LICENCE(S); (TO CHANGE TRAFFIC CONTROL SIGNALS TO FLASHING YELLOW OR TO ACTIVATE PERMANENT VARIABLE MESSAGE SIGNS DIAL 1800 679 782)         Time         -         To         D         M         Time         -         To         D         Apr         7:00           2         API TERS RELATING TO NOIS FEE GENERATION OR OTHER NURONMENTAL FACTORS ON SITE ARE UNDER THE ENVIRONMENTAL PROTECTION STUE OF WORKS SASET MANAGEMENT BEAUCH         FIG <td>Dire</td> <td>ection(s):</td> <td>Eastbound and Westbound</td> <td></td>	Dire	ection(s):	Eastbound and Westbound										
LICENCE CONTROL         STRT ACTIVATION WEB ADDRESS Intips://myroi.transport.nsw.gov.au TO ACTIVATE AND DEACTIVATE YOUR APPROVED ROAD OCCUPANCY LICENCE(S). (TO CHANGE TRAFFIC CONTROL SIGNALS TO FLASHING YELLOW OR TO ACTIVATE PERMANENT VARIABLE MESSAGE SIGNS DIAL 1006 579 782)         From         D         M         Time         -         To         D         M         Time           2         THIS LICENCE IS NOT AN APPROVAL OF THE PROPONENTS TRAFFIC CONTROL PLANS PLEAS NOTE WORKOOVER REQUIRES THAT TRAFFIC CONTROL PLANS ECOMPLY WITH AST742.3         Stat         04         Apr         17:00           3         ALL MATTERS RELATING TO NOISE GENERATION OR OTHER ENVIRONMENTAL FACTORS ON SITE ARE UNDER THE JURISDRICTION OF THE LOCAL COUNCL AND/OR THE ENVIRONMENTAL PROTECTION AUTHORITY.         07         Apr         09:00         -         Tue         07         Apr         17:00           3         ALL MATTER S RELATING TO NOISE GENERATION OR OTHER ENVIRONMENTAL FACTORS ON SITE ARE UNDER THE JURISDRICTION OF THE LOCAL COUNCL AND/OR THE ENVIRONMENTAL PROTECTION AND GUTTER, DETAILS OF WORKS MUST BE APPROVAL OF KERB AND GUTTER, DETAILS OF WORKS MUST BE APPROVED BY THE RMS'S ASSET MANAGEMENT BRANCH.         Tuu         09         Apr         09:00         -         Tue         17.00           5         NOTIFICATION TO AFFECTED BUSINESSES AREJ PRIOR TO WORKS COMMENCING         TU         14         Apr         09:00         -         Tue         14         Apr         17:00           5							דאם ח			2			
https://myiol.transport.new.gov.all.TO.ACTIVATE YOUR         From D         M         Time         -         To         D         M         Time           APPROVED ROAD OCCUPANCY LICENCES(). (TO CHANGE TRAFFIC CONTROL SIGNALS TO FLASHING YELLOW OR TO ACTIVATE         FOR         D         M         Time         -         Thu         02         Apr         17:00           2         THIS LICENCE IS NOT AN APPROVAL OF THE PROPONENTS TRAFFIC CONTROL PLANS COMPLY WITH ASIT42.3         St         4         Apr         09:00         -         Fri         03         Apr         09:00         -         Fri         03         Apr         09:00         -         Fri         03         Apr         17:00           3         ALL MATTERS RELATING TO NOISE GEMERATION OR OTHER ENVIRONMENTAL FACTORS ON SITE ARE UNDER THE JURISDRICTION OF THE LOCAL COUNCIL AND/OR THE ENVIRONMENTAL PROTECTION AUTHORITY.         Sto         04         Apr         09:00         -         Tue         07         Apr         17:00           4         SHOULD THE PROPOSED WORKS INVOLVE UNDERBORING OR EXCAVATION OF STATE ROAD ASSETS OR THE REMOVAL OF KERB AND GUTTER, DETAILS OF WORKS MUST BE APPROVED BY THE STARKEHOLDERS MUST SCOMMENTAL FARCH.         Thu         09         Apr         17:00           5         NOTFICATION TO AFFECTED BUSINESSES, RESIDENTS AND OTHER STAKEHOLDERS MUST SCOMMENTAL FARCH.         Thu <t< td=""><td>1</td><td></td><td></td><td></td><td></td><td>From</td><td>o Shiff</td><td></td><td></td><td>5</td><td>То</td><td>Shift</td><td></td></t<>	1					From	o Shiff			5	То	Shift	
APPROVED ROAD OCCUPANCY LICENCE(S) (TO CHANGE TRAFFIC       Fin       Int		https://myrol.tra	insport.nsw.gov.au TO ACTIVATE AND DEACTIVA	TE YOUR	From		M	Time	-	То		M	Time
PERMANENT VARIABLE MESSAGE SIGNS DIAL 1800 679 782         Thu         0.2         Apr         0.500         Thu         0.2         Apr         17.00           2         THIS LICENCE IS NOT AN APPROVAL OF THE PROPONENTS TRAFFIC CONTROL PLAN, PLEASE NOTE WORKCOVER REQUIRES THAT TRAFFIC CONTROL PLANS COMPLY WITH AS1742.3         Thu         0.2         Apr         0.900         -         Fri         0.3         Apr         17.00           3         ALL MATTERS RELATING TO NOISE GENERATION OR OTHER ENVIRONMENTAL FACTORS ON SITE ARE UNDER THE JURISDRICTION OF THE LOCAL COUNCIL AND/OR THE ENVIRONMENTAL PROTECTION AUTHORITY.         Mon         0.6         Apr         0.900         -         Tue         0.7         Apr         17.00           4         SHOULD THE PROPOSED WORKS INVOLVE UNDERBORING OR ENVALOPT STAFE ROAD ASSETS OF THE REMOVAL OF KERB AND GUTTER DETAILS OF WORKS MUST BE APPROVED BY THE RNS ASSET MANAGEMENT BRANCH.         Sat         11         Apr         0.900         -         Tue         0.7         Apr         17.00           5         NOTIFICATION TO AFFECTED BUSINESSES, RESIDENTS AND OTHER STAKENOLDERS MUST BE UNDERSTES ARESIDENTS AND OTHER PRIOR TO WORKS COMMENCING         Mon         13         Apr         0.900         -         Mon         13         Apr         17.00           5         NOTIFICATION TO AFFECTED BUSINESSES, RESIDENTS AND OTHER STAKENOLDERS MUST BE UNDERTAKEN AT LEAST 5 BUSINESS DAYS		APPROVED RO	DAD OCCUPANCY LICENCE(S). (TO CHANGE TH NALS TO FLASHING YELLOW OR TO ACTIVATE	RAFFIC	Wed	01	Anr	09.00	-	Wed	01	Anr	17.00
2       THIS LICENCE IS NOT AN APPROVAL OF THE PROPONENTS TRAFFIC CONTROL PLAN, PLEASE NOTE WORKCOVER REQUIRES THAT TRAFFIC CONTROL PLANS COMPLY WITH AS1742.3       Fri       03       Apr       90:00       -       Fri       03       Apr       17:00         3       ALL MATTERS RELATING TO NOISE GENERATION OR OTHER ENVIRONMENTAL FACTORS ON SITE ARE UNDER THE JURISDRICTION OF THE LOCAL COUNCIL AND/OR THE ENVIRONMENTAL PROTECTION AUTHORITY.       Mon       06       Apr       99:00       -       Wed       08       Apr       97:00         4       SHOULD THE PROPOSED WORKS INVOLVE UNDERBORING OR EXCAVATION OF STATE ROAD ASSETS OR THE REMOVAL OF KERB AND GUTTER, DETAILS OF WORKS MUST BE APPROVED BY THE RMS'S ASSET MANAGEMENT BRANCH.       Thu       09       Apr       97:00       -       True       14       Apr       17:00         5       NOTIFICATION TO AFFECTED BUSINESSES, RESIDENTS AND OTHER MOS SASET MANAGEMENT BRANCH.       Fri       10       Apr       99:00       -       True       14       Apr       17:00         5       NOTIFICATION TO AFFECTED BUSINESSE, RESIDENTS AND OTHER STAKEHOLDERS MUST BE UNDERTAKEN AT LEAST 5 BUSINESS DAYS       Mon       13       Apr       99:00       -       True       14       Apr       17:00         7       TO WORKS COMMENCING       Fri       17       Apr       99:00       -       True       14       Apr<		PERMANENT	ARIABLE MESSAGE SIGNS DIAL 1800 679 782)	-	Thu	02	Apr	09.00	-	Thu	02	Anr	17.00
1         Apr         09:00         -         Sat         04         Apr         17:00           3         ALL MATTERS RELATING TO NOISE GENERATION OR OTHER ENVIRONMENTAL FACTORS ON SITE ARE UNDER THE JURISDRICTION OATHORITY.         Sat         04         Apr         09:00         -         Tue         07         Apr         09:00         -         Tue         07         Apr         09:00         -         Tue         07         Apr         17:00           4         SHOULD THE PROPOSED WORKS INVOLVE UNDERBORING OR EXCAVATION OF STATE ROAD ASSETS OR THE REMOVAL OF KERB AND GUITTER, DETAILS OF WORKS MUST BE APPROVED BY THE RMS'S ASSET MANAGEMENT BRANCH.         Thu         09         Apr         09:00         -         Frii         10         Apr         17:00           5         NOTIFICATION TO AFFECTED BUSINESSES, RESIDENTS AND OTHER STAKEHOLDERS MUST BE UNDERTAKEN AT LEAST 5 BUSINESS DAYS PRIOR TO WORKS COMMENCING         Mon         13         Apr         17:00           5         NOTIFICATION TO AFFECTED BUSINESSES, RESIDENT'S AND OTHER STAKEHOLDERS MUST BE UNDERTAKEN AT LEAST 5 BUSINESS DAYS PRIOR TO WORKS COMMENCING         Mon         13         Apr         17:00           6         Thu         16         Apr         17:00         Tue         14         Apr         17:00           5         NOTIFICATION TO AFFECTED BUSINESSES AFS	2	THIS LICENCE	IS NOT AN APPROVAL OF THE PROPONENT'S	TRAFFIC	Fri	03	Apr	09:00	-	Fri	03	Apr	17:00
3       ALL MATTERS RELATING TO NOISE GENERATION OR OTHER ENVIRONMENTAL FACTORS ON SITE ARE UNDER THE JURISDRICTION AUTHORITY.       Mon       06       Apr       09:00       -       Tue       07       Apr       17:00         4       SHOULD THE PROPOSED WORKS INVOLVE UNDERBORING OR AND GUTTER, DETAILS OF WORKS MUST BE APPROVED BY THE RMS'S ASSET MANAGEMENT BRANCH.       Thu       09       Apr       09:00       -       Tue       07       Apr       17:00         5       NOTIFICATION TO AFFECTED BUSINESSES, RESIDENTS AND OTHER STAKENDLES FWORKS COMMENCING       Mon       13       Apr       09:00       -       Fri       10       Apr       17:00         5       NOTIFICATION TO AFFECTED BUSINESSES, RESIDENTS AND OTHER STAKENDLES FWORKS COMMENCING       Mon       13       Apr       09:00       -       Tue       14       Apr		TRAFFIC CON	TROL PLANS COMPLY WITH AS1742.3	AI	Sat	04	Apr	09:00	-	Sat	04	Apr	17:00
ENVIRONMENTAL FACTORS ON SITE ARE UNDER THE JURISDRICTION OF THE LOCAL COUNCIL AND/OR THE ENVIRONMENTAL PROTECTION AUTHORITY.         Tue         07         Apr         17:00           4         SHOULD THE PROPOSED WORKS INVOLVE UNDERBORING OR EXCAVATION OF STATE ROAD ASSETS OR THE REMOVAL OF KERB AND GUTTER, DETAILS OF WORKS MUST BE APPROVED BY THE RMS'S ASSET MANAGEMENT BRANCH.         Thu         09         Apr         09:00         -         Thu         09         Apr         17:00           5         NOTIFICATION TO AFFECTED BUSINESSES, RESIDENTS AND OTHER STAKEHOLDERS MUST BE UNDERTAKEN AT LEAST 5 BUSINESS DAYS PRIOR TO WORKS COMMENCING         Mon         13         Apr         09:00         -         Tue         14         Apr         17:00           5         NOTIFICATION TO AFFECTED BUSINESSES, RESIDENTS AND OTHER STAKEHOLDERS MUST BE UNDERTAKEN AT LEAST 5 BUSINESS DAYS PRIOR TO WORKS COMMENCING         Mon         13         Apr         09:00         -         Tue         14         Apr         17:00           64         10         Apr         09:00         -         Tue         14         Apr         17:00           7         10         16         Apr         17:00         Tue         14         Apr         17:00           8         11         17         17         Apr         17:00         Tue         14 <t< td=""><td>3</td><td>ALL MATTERS</td><td>RELATING TO NOISE GENERATION OR OTHER</td><td>र</td><td>Mon</td><td>06</td><td>Apr</td><td>09:00</td><td>-</td><td>Mon</td><td>06</td><td>Apr</td><td>17:00</td></t<>	3	ALL MATTERS	RELATING TO NOISE GENERATION OR OTHER	र	Mon	06	Apr	09:00	-	Mon	06	Apr	17:00
AUTHORITY.       Wed       08       Apr       09:00       -       Wed       08       Apr       17:00         4       SHOULD THE PROPOSED WORKS INVOLVE UNDERBORING OR EXCAVATION OF STATE ROAD ASSETS OR THE REMOVAL OF KERB AND GUTTER, DETAILS OF WORKS MUST BE APPROVED BY THE STAKEHOLDERS MANAGEMENT BRANCH.       Thu       09       Apr       09:00       -       Fri       10       Apr       17:00         5       NOTFICATION TO AFFECTED BUSINESSES, RESIDENTS AND OTHER STAKEHOLDERS MUST BE UNDERTAKEN AT LEAST 5 BUSINESS DAYS PRIOR TO WORKS COMMENCING       Mon       13       Apr       09:00       -       Tue       14       Apr       17:00         5       NOTFICATION TO AFFECTED BUSINESSES, RESIDENTS AND OTHER STAKEHOLDERS MUST BE UNDERTAKEN AT LEAST 5 BUSINESS DAYS PRIOR TO WORKS COMMENCING       Mon       13       Apr       09:00       -       Tue       14       Apr       17:00         6       Apr       15       Apr       09:00       -       Tue       14       Apr       17:00         7       Tue       14       Apr       09:00       -       Tue       14       Apr       17:00         8       Apr       09:00       -       Tue       14       Apr       17:00       Sat       18       Apr       09:00       -       Tue <td></td> <td></td> <td></td> <td>SDRICTION</td> <td>Tue</td> <td>07</td> <td>Apr</td> <td>09:00</td> <td>-</td> <td>Tue</td> <td>07</td> <td>Apr</td> <td>17:00</td>				SDRICTION	Tue	07	Apr	09:00	-	Tue	07	Apr	17:00
4       SHOULD THE PROPOSED WORKS INVOLVE UNDERBORING OR EXCAVATION OF STATE ROAD ASSETS OR THE REMOVAL OF KERB AND GUTTER, DETAILS OF WORKS MUST BE APPROVED BY THE RMS'S ASSET MANAGEMENT BRANCH.       Thu       09       Apr       09:00       -       Fri       10       Apr       17:00         5       NOTIFICATION TO AFFECTED BUSINESSES, RESIDENTS AND OTHER STAKEHOLDERS MUST BE UNDERTAKEN AT LEAST 5 BUSINESS DAYS PRIOR TO WORKS COMMENCING       Mon       13       Apr       09:00       -       Mon       13       Apr       17:00         4       Apr       09:00       -       Tue       14       Apr       09:00       -       Mon       13       Apr       17:00         5       NOTIFICATION TO AFFECTED BUSINESSES, RESIDENTS AND OTHER STAKEHOLDERS MUST BE UNDERTAKEN AT LEAST 5 BUSINESS DAYS PRIOR TO WORKS COMMENCING       Mon       13       Apr       09:00       -       Tue       14       Apr       17:00         6       Mat       Mat <t< td=""><td></td><td>AUTHORITY.</td><td>COUNCIL AND/OR THE ENVIRONMENTAL PROT</td><td></td><td>Wed</td><td>08</td><td>Apr</td><td>09:00</td><td>-</td><td>Wed</td><td>08</td><td>Apr</td><td>17:00</td></t<>		AUTHORITY.	COUNCIL AND/OR THE ENVIRONMENTAL PROT		Wed	08	Apr	09:00	-	Wed	08	Apr	17:00
EXCAVATION OF STATE ROAD ASSETS OR THE REMOVAL OF KERB AND GUTTER, DETAILS OF WORKS MUST BE APPROVED BY THE RMS'S ASSET MANAGEMENT BRANCH.       Fri       10       Apr       09:00       -       Fri       10       Apr       17:00         5       NOTIFICATION TO AFFECTED BUSINESSES, RESIDENTS AND OTHER STAKEHOLDERS MUST BE UNDERTAKEN AT LEAST 5 BUSINESS DAYS PRIOR TO WORKS COMMENCING       Mon       13       Apr       09:00       -       Tue       14       Apr       17:00         Wed       15       Apr       09:00       -       Tue       14       Apr       17:00         Wed       15       Apr       09:00       -       Tue       14       Apr       17:00         Fri       17       Apr       09:00       -       Fri       17       Apr       17:00         Wed       15       Apr       09:00       -       Fri       17       Apr       17:00         Sat       18       Apr       09:00       -       Fri       17       Apr       17:00         Wed       12       Apr       09:00       -       Mon       20       Apr       17:00         Tue       14       Apr       09:00       -       Tue       21       Apr       17:00 <td>4</td> <td>SHOULD THE</td> <td rowspan="2">PROPOSED WORKS INVOLVE UNDERBORING OR OF STATE ROAD ASSETS OR THE REMOVAL OF KE DETAILS OF WORKS MUST BE APPROVED BY THE</td> <td>OR</td> <td>Thu</td> <td>09</td> <td>Apr</td> <td>09:00</td> <td>-</td> <td>Thu</td> <td>09</td> <td>Apr</td> <td>17:00</td>	4	SHOULD THE	PROPOSED WORKS INVOLVE UNDERBORING OR OF STATE ROAD ASSETS OR THE REMOVAL OF KE DETAILS OF WORKS MUST BE APPROVED BY THE	OR	Thu	09	Apr	09:00	-	Thu	09	Apr	17:00
RMSS ASSET MANAGEMENT BRANCH.       Sat       11       Apr       09:00       -       Sat       11       Apr       17:00         5       NOTIFICATION TO AFFECTED BUSINESSES, RESIDENTS AND OTHER STAKEHOLDERS MUST BE UNDERTAKEN AT LEAST 5 BUSINESS DAYS       Mon       13       Apr       09:00       -       Mon       13       Apr       17:00         Tue       14       Apr       09:00       -       Tue       14       Apr       17:00         Wed       15       Apr       09:00       -       Tue       14       Apr       17:00         Fin       17       Apr       09:00       -       Tue       14       Apr       17:00         Wed       15       Apr       09:00       -       Tue       14       Apr       17:00         Sat       11       Apr       09:00       -       Fri       17       Apr       17:00         Sat       18       Apr       09:00       -       Kat       18       Apr       17:00         Sat       18       Apr       09:00       -       Tue       21       Apr       17:00         Sat       18       Apr       09:00       -       Tue       2		EXCAVATION AND GUTTER		F KERB THF	Fri	10	Apr	09:00	-	Fri	10	Apr	17:00
5         NOTIFICATION TO AFFECTED BUSINESSES, RESIDENTS AND OTHERS BRICE TO WORKS COMMENCING         Mon         13         Apr         99:00         -         Mon         13         Apr         17:00           Tue         14         Apr         09:00         -         Tue         14         Apr         17:00           Wed         15         Apr         09:00         -         Tue         14         Apr         17:00           Wed         15         Apr         09:00         -         Tue         16         Apr         17:00           Fri         17         Apr         09:00         -         Thu         16         Apr         17:00           Sat         18         Apr         09:00         -         Sat         18         Apr         09:00         -         Mon         12         Apr         17:00           Sat         18         Apr         09:00         -         Tue         21         Apr         17:00           Sat         18         Apr         09:00         -         Tue         21         Apr         17:00           Sat         22         Apr         09:00         -         Tue         23		RMS'S ASSET	MANAGEMENT BRANCH.		Sat	11	Apr	09:00	-	Sat	11	Apr	17:00
Tue       14       Apr       09:00       -       Tue       14       Apr       17:00         Wed       15       Apr       09:00       -       Wed       15       Apr       09:00       -       Wed       15       Apr       17:00         Thu       16       Apr       09:00       -       Thu       16       Apr       17:00         Fri       17       Apr       09:00       -       Fri       17       Apr       09:00       -       Fri       17       Apr       17:00         Sat       18       Apr       09:00       -       Sat       18       Apr       09:00       -       Sat       18       Apr       17:00         Mon       20       Apr       09:00       -       Tue       21       Apr       17:00         Mon       20       Apr       09:00       -       Tue       21       Apr       17:00         Tue       21       Apr       09:00       -       Tue       23       Apr       17:00         Thu       23       Apr       09:00       -       Fri       24       Apr       09:00       -       Tue       28 <td>5</td> <td>NOTIFICATION</td> <td>TO AFFECTED BUSINESSES, RESIDENTS AND</td> <td>OTHER</td> <td>Mon</td> <td>13</td> <td>Apr</td> <td>09:00</td> <td>-</td> <td>Mon</td> <td>13</td> <td>Apr</td> <td>17:00</td>	5	NOTIFICATION	TO AFFECTED BUSINESSES, RESIDENTS AND	OTHER	Mon	13	Apr	09:00	-	Mon	13	Apr	17:00
Wed       15       Apr       09:00       -       Wed       15       Apr       17:00         Thu       16       Apr       09:00       -       Thu       16       Apr       17:00         Fri       17       Apr       09:00       -       Fri       17       Apr       17:00         Sat       18       Apr       09:00       -       Sat       18       Apr       17:00         Mon       20       Apr       09:00       -       Mon       20       Apr       17:00         Mon       20       Apr       09:00       -       Mon       20       Apr       17:00         Tue       21       Apr       09:00       -       Tue       21       Apr       17:00         Wed       22       Apr       09:00       -       Thu       23       Apr       17:00         Thu       23       Apr       09:00       -       Fri       24       Apr       17:00         Sat       25       Apr       09:00       -       Sat       25       Apr       17:00         Mon       27       Apr       17:00       -       Mon       27		PRIOR TO WO	RS MUST BE UNDERTAKEN AT LEAST 5 BUSIN RKS COMMENCING	ESS DAYS	Tue	14	Apr	09:00	-	Tue	14	Apr	17:00
Thu       16       Apr       09:00       -       Thu       16       Apr       17:00         Fri       17       Apr       09:00       -       Fri       17       Apr       17:00         Sat       18       Apr       09:00       -       Sat       18       Apr       17:00         Mon       20       Apr       09:00       -       Sat       18       Apr       17:00         Mon       20       Apr       09:00       -       Mon       20       Apr       17:00         Tue       21       Apr       09:00       -       Tue       21       Apr       17:00         Wed       22       Apr       09:00       -       Tue       21       Apr       17:00         Thu       23       Apr       09:00       -       Thu       23       Apr       17:00         Fri       24       Apr       09:00       -       Fri       24       Apr       17:00         Sat       25       Apr       09:00       -       Sat       25       Apr       17:00         Tue       28       Apr       09:00       -       Tue       28					Wed	15	Apr	09:00	-	Wed	15	Apr	17:00
Fri       17       Apr       09:00       -       Fri       17       Apr       17:00         Sat       18       Apr       09:00       -       Sat       18       Apr       17:00         Mon       20       Apr       09:00       -       Mon       20       Apr       17:00         Tue       21       Apr       09:00       -       Tue       21       Apr       17:00         Wed       22       Apr       09:00       -       Tue       21       Apr       17:00         Tue       21       Apr       09:00       -       Tue       21       Apr       17:00         Wed       22       Apr       09:00       -       Tue       23       Apr       17:00         Thu       23       Apr       09:00       -       Thu       23       Apr       17:00         Sat       25       Apr       09:00       -       Sat       25       Apr       17:00         Tue       28       Apr       09:00       -       Tue       28       Apr       17:00         Tue       28       Apr       09:00       -       Tue       28					Thu	16	Apr	09:00	-	Thu	16	Apr	17:00
Sat       18       Apr       09:00       -       Sat       18       Apr       17:00         Mon       20       Apr       09:00       -       Mon       20       Apr       17:00         Tue       21       Apr       09:00       -       Tue       21       Apr       17:00         Wed       22       Apr       09:00       -       Tue       21       Apr       17:00         Wed       22       Apr       09:00       -       Tue       21       Apr       17:00         Thu       23       Apr       09:00       -       Tue       22       Apr       17:00         Thu       23       Apr       09:00       -       Thu       23       Apr       17:00         Sat       25       Apr       09:00       -       Fri       24       Apr       17:00         Sat       25       Apr       09:00       -       Mon       27       Apr       17:00         Mon       27       Apr       09:00       -       Tue       28       Apr       17:00         Tue       28       Apr       09:00       -       Tue       29					Fri	17	Apr	09:00	-	Fri	17	Apr	17:00
Mon       20       Apr       09:00       -       Mon       20       Apr       17:00         Tue       21       Apr       09:00       -       Tue       21       Apr       17:00         Wed       22       Apr       09:00       -       Wed       22       Apr       17:00         Thu       23       Apr       09:00       -       Thu       23       Apr       17:00         Thu       23       Apr       09:00       -       Thu       23       Apr       17:00         Fri       24       Apr       09:00       -       Fri       24       Apr       17:00         Sat       25       Apr       09:00       -       Fri       24       Apr       17:00         Mon       27       Apr       09:00       -       Sat       25       Apr       17:00         Tue       28       Apr       09:00       -       Tue       28       Apr       17:00         Thu       30       Apr       09:00       -       Tue       28       Apr       17:00         Thu       30       Apr       09:00       -       Thu       30					Sat	18	Apr	09:00	-	Sat	18	Apr	17:00
Tue       21       Apr       09:00       -       Tue       21       Apr       17:00         Wed       22       Apr       09:00       -       Wed       22       Apr       17:00         Thu       23       Apr       09:00       -       Thu       23       Apr       17:00         Fri       24       Apr       09:00       -       Fri       24       Apr       17:00         Sat       25       Apr       09:00       -       Fri       24       Apr       17:00         Mon       27       Apr       09:00       -       Sat       25       Apr       17:00         Mon       27       Apr       09:00       -       Sat       25       Apr       17:00         Mon       27       Apr       09:00       -       Mon       27       Apr       17:00         Tue       28       Apr       09:00       -       Tue       28       Apr       17:00         Wed       29       Apr       09:00       -       Thu       30       Apr       17:00         Fri       01       May       09:00       -       Fri       01					Mon	20	Apr	09:00	-	Mon	20	Apr	17:00
Wed       22       Apr       09:00       -       Wed       22       Apr       17:00         Thu       23       Apr       09:00       -       Thu       23       Apr       17:00         Fri       24       Apr       09:00       -       Fri       24       Apr       09:00       -       Fri       24       Apr       17:00         Sat       25       Apr       09:00       -       Sat       25       Apr       09:00       -       Sat       25       Apr       17:00         Mon       27       Apr       09:00       -       Mon       27       Apr       17:00         Tue       28       Apr       09:00       -       Tue       28       Apr       17:00         Thu       30       Apr       09:00       -       Tue       28       Apr       17:00         Thu       30       Apr       09:00       -       Thu       30       Apr       17:00         Fri       01       May       09:00       -       Thu       30       Apr       17:00         Sat       02       May       09:00       -       Sat       02 </td <td></td> <td></td> <td></td> <td></td> <td>Tue</td> <td>21</td> <td>Apr</td> <td>09:00</td> <td>-</td> <td>Tue</td> <td>21</td> <td>Apr</td> <td>17:00</td>					Tue	21	Apr	09:00	-	Tue	21	Apr	17:00
Inu       23       Apr       09:00       -       Inu       23       Apr       17:00         Fri       24       Apr       09:00       -       Fri       24       Apr       17:00         Sat       25       Apr       09:00       -       Sat       25       Apr       17:00         Mon       27       Apr       09:00       -       Sat       25       Apr       17:00         Mon       27       Apr       09:00       -       Mon       27       Apr       17:00         Tue       28       Apr       09:00       -       Tue       28       Apr       17:00         Wed       29       Apr       09:00       -       Tue       28       Apr       17:00         Thu       30       Apr       09:00       -       Tue       28       Apr       17:00         Thu       30       Apr       09:00       -       Thu       30       Apr       17:00         Thu       30       Apr       17:00       May       09:00       -       Fri       01       May       17:00         Sat       02       May       09:00 <t< td=""><td></td><td></td><td></td><td></td><td>Wed</td><td>22</td><td>Apr</td><td>09:00</td><td>-</td><td>Wed</td><td>22</td><td>Apr</td><td>17:00</td></t<>					Wed	22	Apr	09:00	-	Wed	22	Apr	17:00
Fri       24       Apr       09:00       -       Fri       24       Apr       17:00         Sat       25       Apr       09:00       -       Sat       25       Apr       17:00         Mon       27       Apr       09:00       -       Mon       27       Apr       17:00         Tue       28       Apr       09:00       -       Mon       27       Apr       17:00         Tue       28       Apr       09:00       -       Tue       28       Apr       17:00         Wed       29       Apr       09:00       -       Tue       28       Apr       17:00         Thu       30       Apr       09:00       -       Tue       28       Apr       17:00         Thu       30       Apr       09:00       -       Tue       28       Apr       17:00         Fri       01       May       09:00       -       Fri       01       May       17:00         Sat       02       May       09:00       -       Sat       02       May       17:00         Mon       04       May       09:00       -       Mon       04					l nu	23	Apr	09:00	-	Thu Exi	23	Apr	17:00
Sat       25       Apr       09:00       -       Sat       25       Apr       17:00         Mon       27       Apr       09:00       -       Mon       27       Apr       17:00         Tue       28       Apr       09:00       -       Tue       28       Apr       17:00         Wed       29       Apr       09:00       -       Tue       28       Apr       17:00         Wed       29       Apr       09:00       -       Tue       28       Apr       17:00         Thu       30       Apr       09:00       -       Tue       28       Apr       17:00         Thu       30       Apr       09:00       -       Tue       28       Apr       17:00         Thu       30       Apr       09:00       -       Thu       30       Apr       17:00         Sat       02       May       09:00       -       Fri       01       May       17:00         Sat       02       May       09:00       -       Sat       02       May       17:00         Mon       04       May       09:00       -       Tue       05					Fri	24	Apr	09:00	-	Fri	24	Apr	17:00
Mori       27       Apr       09:00       -       Mori       27       Apr       17:00         Tue       28       Apr       09:00       -       Tue       28       Apr       17:00         Wed       29       Apr       09:00       -       Wed       29       Apr       17:00         Thu       30       Apr       09:00       -       Wed       29       Apr       17:00         Thu       30       Apr       09:00       -       Thu       30       Apr       17:00         Fri       01       May       09:00       -       Thu       30       Apr       17:00         Sat       02       May       09:00       -       Fri       01       May       17:00         Mon       04       May       09:00       -       Sat       02       May       17:00         Mon       04       May       09:00       -       Mon       04       May       17:00         Mon       04       May       09:00       -       Mon       04       May       17:00         Wed       06       May       09:00       -       Tue					Mon	20	Apr	09.00	-	Sai	25	Apr	17:00
Wed       29       Apr       09:00       -       Wed       29       Apr       17:00         Wed       29       Apr       09:00       -       Thu       30       Apr       17:00         Thu       30       Apr       09:00       -       Thu       30       Apr       17:00         Fri       01       May       09:00       -       Thu       30       Apr       17:00         Sat       02       May       09:00       -       Fri       01       May       17:00         Mon       04       May       09:00       -       Sat       02       May       17:00         Tue       05       May       09:00       -       Sat       02       May       17:00         Wed       06       May       09:00       -       Mon       04       May       17:00         Wed       06       May       09:00       -       Tue       05       May       17:00         Wed       06       May       09:00       -       Tue       05       May       17:00						21	Apr	09.00	-		21	Apr	17.00
Wed       23       Apr       05.00       -       Wed       23       Apr       17.00         Thu       30       Apr       09:00       -       Thu       30       Apr       17:00         Fri       01       May       09:00       -       Fri       01       May       17:00         Sat       02       May       09:00       -       Sat       02       May       09:00       -       Sat       02       May       17:00         Mon       04       May       09:00       -       Mon       04       May       17:00         Tue       05       May       09:00       -       Mon       04       May       17:00         Wed       06       May       09:00       -       Tue       05       May       17:00         Wed       06       May       09:00       -       Tue       05       May       17:00					Wed	20	Apr	09.00	-	Wed	20	Apr	17.00
Fri       01       May       09:00       -       Fri       01       May       17:00         Sat       02       May       09:00       -       Sat       02       May       09:00       -       Sat       02       May       17:00         Mon       04       May       09:00       -       Mon       04       May       17:00         Tue       05       May       09:00       -       Tue       05       May       17:00         Wed       06       May       09:00       -       Tue       05       May       17:00					Thu	30	Anr	09.00	-	Thu	30	Anr	17.00
Sat       02       May       09:00       -       Sat       02       May       17:00         Mon       04       May       09:00       -       Mon       04       May       17:00         Tue       05       May       09:00       -       Mon       04       May       17:00         Wed       06       May       09:00       -       Tue       05       May       17:00         Wed       06       May       09:00       -       Tue       05       May       17:00					Fri	01	Mav	09:00	-	Fri	01	Mav	17:00
Mon       04       May       09:00       -       Mon       04       May       17:00         Tue       05       May       09:00       -       Tue       05       May       17:00         Wed       06       May       09:00       -       Tue       05       May       17:00					Sat	02	Mav	09:00	-	Sat	02	Mav	17:00
Tue         05         May         09:00         -         Tue         05         May         17:00           Wed         06         May         09:00         -         Wed         06         May         09:00         -         Wed         06         May         17:00					Mon	04	Mav	09:00	-	Mon	04	Mav	17:00
Wed 06 May 09:00 - Wed 06 May 17:00					Tue	05	Mav	09:00	-	Tue	05	Mav	17:00
					Wed	06	May	09:00	-	Wed	06	May	17:00

All pages of this Road Occupancy Licence and associated Speed Zone Authorisation(s) must be available on site at all times and must be produced for inspection when requested by representatives of NSW Police, Roads & Maritimes Services, Transport for NSW and other Government Agencies.



### LICENCE NO : 1365906

#### **ROADS & MARITIME SERVICES (RMS)**

#### Phone: 1300 656 371 Monday To Friday 8.30 AM - 4.30 PM

To activate and deactivate your approved work shift(s) on your Road Occupancy Licence, please visit: myrol.transport.nsw.gov.au. This licence is for the occupation of the road space only. If you are unable to access myrol.transport.nsw.gov.au, please call TMC on 1800 679 782. For further assistance, please refer to the proponent's user manual here: myrol.transport.nsw.gov.au/help.pdf

Project:         Not Applicable         Subject Road:         Golden Highway           This Activity:         Temporary Road Closure for Blasting         From:         Comelroi Road, WARKWORTH           To:         Prinegrove road, Warkworth NSW         SUBLETON           LICENSEE         ONSITE CONTACT           Organisation:         Wambo Coal Ply Ltd         Name:         Jeff Hanlon (Open Cut Mine Manager)           RN No:         Date Harmour         Phone:         0475647671           Phone:         0405860988         Tro:         30-Sep-2020           Closure Lane(s):         Shoulder         From:         01-Apr-2020           Closure Lane(s):         Shoulder         From:         01-Apr-2020           Closure Lane(s):         Shoulder         From:         01-Apr-2020           Closure Lane(s):         Shoulder         From:         1-Apr-2020           Closure Lane(s):         Shoulder         From:         1-Apr-2020           Closure Lane(s):         Shoulder         From:         1-Apr-2020           Closure Lane(s):         Shoulder Hart IS AT NO TIME A TRAFFICABLE LANE         From D M Time         Too Shift           Form D Add Should Road Road Road Road Road Road Road Roa	NON DEVELOPMENT - NOT KNOWN LOCATIO		ON											
This Activity:         Temporary Road Closure for Blasting         From: To: Coundit         Comercive Road, Warkworth NSW SINGLETON           LICENSEE         ONSITE CONTACT         Progrove road, Warkworth NSW           Organisation:         Warnbo Coal Pty Ltd         Name: Date Harmour         Jeff Handon (Open Cut Mine Manager) Phone:         0417647671           Name:         Date Harmour         Phone:         0417647671         UCENCE DURATION           Flow Management:         Stop Sologe So	Project:	Not Applicable Subject Roa		oad:	<b>id:</b> Golden Highway									
To:         Pinegrove road, Warkworth NSW           Council:         SINGLETON           Council:         SINGLETON           Direction         ONSITE CONTACT           Organisation:         Warnbo Coal Pty Ltd         Name:         Jeff Hanlon (Open Cut Mine Manager)           Ref Mo:         Dale Harmour         Phone:         0417647671           Name:         Dale Harmour         Phone:         0417647671           From:         040896988         To:         30-Sep-2020           Closure Lane(5)         Shoulder         To:         30-Sep-2020           Closure Lane(5)         Shoulder         To:         30-Sep-2020           Closure Lane(5)         Shoulder         To:         Shoit           Form:         01-Apr-2020         To:         Shoit           Closure Lane(5)         Shoulder         To:         Shoit           Form:         Markerson         To:         Shoit           Closure Lane(5)         Shoulder         To:         Shoit <th>This Activity :</th> <th>Temporary Road Closure for Blasting</th> <th>From:</th> <th colspan="6">Comleroi Road, WARKWORTH</th> <th></th> <th></th> <th></th>	This Activity :	Temporary Road Closure for Blasting	From:	Comleroi Road, WARKWORTH										
Council:         SINGLETON           LICENSEE         ONSITE CONTACT           Organisation:         Wambo Coal Pty Ltd         Name:         Jeff Hanlon (Open Cut Mine Manager)           Ref No:         Dale Harmour         Phone:         0417647671           Name:         Dale Marmour         Phone:         0417647671           Name:         Dale Marmour         Phone:         0417647671           Name:         Dale Marmour         Phone:         0417647671           Name:         All anes both directions         To:         30-Ape-2020           Closure Tope:         All anes both directions         To:         30-Sep-2020           Closure Tope:         Eastbound and Westbound         From Phone:         To         D         M         Tme         To         M           FOR THE PLACEMENT OF ADVANCE WARTINES RETRECONITION THAT THERES         From Shift         To         May 17:00           Fin: 016 May 09:00         Frii: 08 May 09:00         Sat (9 May 09:00)         Frii: 10 May 09:00         Frii: 10 M	-		То:		Pir	negrove	e road, W	/arkw	orth NS	W				
LICENSEE       ONSITE CONTACT         Organisation:       Wambo Coal Pty Ltd       Name:       Jeff Hanlon (Open Cut Mine Manager)         Ref No:       Dale Harmour       Phone:       0417647671         Name:       Dale Marmour       Phone:       0417647671         Phone:       04009699988       0147647671       Name:       0417647671         TRAFFIC MANAGEMENT       LICENCE DURATION       Form:       01-Apr-2020         Closure Type:       All lanes both directions       To:       30-Sep-2020         Closure Type:       Eastbound and Westbound       Form D       M       Time -       To       D       M       Ti			Council:		SI	NGLET	ON							
Organisation:         Wambo Coal Ply Ltd         Name:         Jeff Hanlon (Open Cut Mine Manager)           Ret No:         Date Harmour         Phone:         0417647671           Name:         Date Harmour         Phone:         0417647671           Phone:         0408969988         International Control         From:         01-Apr-2020           Closure Lengel:         Shoulder         Direction(s):         So-Sep-2020         Closure Lengel:           Closure Lengel:         Shoulder         Direction(s):         Eastbound and Westbound         From:         01-Apr-2020           LICENCE CONDITIONS         6         A SHOULDER CLOSURE THAT IS AT NO TIME A TRAFFICABLE LANK, FOR THE LICENSED PERIOD, ON THE CONDITION THAT THERE IS INCLOSURE THAT IS AT NO TIME A TRAFFIC CALL LANK, FOR THE LICENSED PERIOD, ON THE CONDITION THAT THERE IS INCLOSURE ADVACE WARNING SIGNAGE, MAY OCCUR THU 07 May 09:00         Thu         07 May 17:00           DIRECTION RADIAL CONCORDANCE WITH THE RET TRAFFIC CONTROL AT WORKING TE CONDERDIAL THAT IS ATTRAFFIC CONTROL AT WARKING SIGNAGE IN ADVANCE WARKING SIGNAGE IN	LICENSEE	LICENSEE ONSITE O			CONTACT									
Ref No:         Phone:         0417647671           Name:         Dale Harmour           Phone:         04098969898           TRAFFIC MANAGEMENT         LICENCE DURATION           Flow Management: Stop / Slow Control         From:         01-Apr-2020           Closure Type:         All lanes both directions         To:         30-Sep-2020           Closure Type:         All anes both directions         To:         30-Sep-2020           Closure Type:         Eastbound and Westbound         E         From Shift         To:         Shift           LICENCE CONDITIONS         6         A SHOULDER CLOSURE THAT IS AT NO TIME A TRAFFICABLE LANE. FOR THE PLACEMENT OF ADVANCE WARNING SIGNAGE, MAY OCCUR         From D         M         Time         To:         Shift           DURING THE LICENSED PERIOD, ON THE CONDITION THAT THEE SIGNAGE, IN ACCORDANCE WITH TRAFFIC STOPPAGES MAY OCCUR         Thu         07         May 09:00         Sati 09         May 17:00           SHORT TIME INTERKITENT TRAFFIC IS DELAYED BY A PREVIOUS         Fri         84 May 09:00         Sati 0         May 09:00         Fri         84 May 17:00           SHORT TIME INTERKITENT TRAFFIC STOPPAGES MAY OCCUR         May 09:00         Fri         15 May 07:00         Fri         16 May 09:00         Fri         18 May 17:00           SHORT TIM	Organisation:	Wambo Coal Pty Ltd	Name:		Je	ff Hanlo	on (Open	Cut	Mine Ma	nager	·)			
Name:         Dale Harmour           4009596998	Ref No:	,	Phone:		04	176476	571			0	,			
Phone:         0408969988           TRAFFIC MANAGEMENT         LICENCE DURATION           From:         01-Apr-2020           Closure Lang(s):         Show Control         From:         01-Apr-2020           Closure Lang(s):         Show Control         From:         01-Apr-2020           Closure Lang(s):         Show Control         From:         30-Sep-2020           Closure Lang(s):         Eastbound and Westbound         State         State           Interction(s):         Eastbound and Westbound         State         State         State           ICENCE CONDITIONS         A SHOULDER CLOSURES THAT WORKSITE TRAFFIC ARRANGEMENTS PROVIDE ADDEQUATE FRAFFIC ALTINES FOR AND BICYCLISTS, INCLUDING A ROLTE AND/OR SIGNAGE THROUGH OR AROUND THE SIGNAGE.I MACCORDANCE WITH THE TRAFFIC CONTROLAT.         State         9 May         17:00           Sign Op Mag 09:00         State         9 May         17:00         May         17:00           OURING THE LICENSED DERIOD ON THACTOR TRAFFIC STOPPAGES MAY OCCUR NURSITES MANUAL.         None 11         May 10:00         None 11         May 17:00           StorPAGE OCCURS WHILE ANY TRAFFIC STOPPAGES MAY OCCUR NURSITES MANUAL.         None 11         May 17:00         None 11         May 17:00           CONDERSTON OR ANY TRAFFIC STOPPAGES MAY OCCUR NURSITES MANUAL.         May 17:00         None 11 <th< td=""><td>Name:</td><td>Dale Harmour</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>	Name:	Dale Harmour												
TRAFFIC MANAGEMENT       LICENCE DURATION         Flow Management:       Stop / Slow Control       From:       01-Apr-2020         Closure Type:       All lanes both directions       To:       30-Sep-2020         Closure Lane(s):       Eastbound and Westbound       To:       30-Sep-2020         ILCENCE CONDITIONS       Fastbound and Westbound       Form:       01-Apr-2020         ILCENCE CONDITIONS       Fastbound and Westbound       From:       0       Time       -       To:         ILCENCE CONDITIONS       Fastbound and Westbound       Form D       M Time       -       To:       Direction(s):         ILCENCE ENSED PERIOD, ON THE CONDITION THATHERE IS       From D       M Time       -       To:       Direction(s):         Stop Provide Decourt F EAD/CRECE TTRAFFIC ARRANGEMENTS       From 0       M Time       -       To:       0       May 17:00         Stop Pravide Account France Traffic C Stop Praces May OCCUR       Naccoord ManuAll       To:       1       May 17:00         Tue 12       May 09:00       -       Tue 12       May 09:00       -       Tue 12       May 17:00         Tue 12       May 09:00       -       Tue 12       May 09:00       -       Tue 12       May 17:00         Stop Praces	Phone:	0408969988												
Flow Management:       Stop / Slow Control       From:       01-Apr-2020         Closure Type:       All lanes both directions       To:       30-Sep-2020         Closure Lane(s):       Shoulder         Direction(s):       Eastbound and Westbound         LICENCE CONDITIONS       A       APPROVED DATES & TIMES         Construct The LICENSE DERIOD, ON ADJACENT TRAFFIC ABLE LANE, FOR THE LICENSE DERIOD, ON ADJACENT TRAFFIC FLOW, AND, THAT THE REGLIGIBLE IMPACT ON ADJACENT TRAFFIC FLOW, AND, THAT THE WORKSITES MANUAL.       From Shit       To       D       M       Time       To       D       M       Time       To       No.       D       M       Time       To       D       M       Time       N       Distift         VOIDE ADDECHATES ENJORS ISINAGE THRAUGH OR AROUND THAT THE WORKSITES MANUAL.       TOROPAGE CONDITION THAT THAT NO       Stop May 09:00       Sat       9       May 17:00         STOPPAGE       "EMERGENCY SERVICES	TRAFFIC MANAG	GEMENT	LICENC	E DUR	ΑΤΙΟ	N								
Closure Type:         All lanes both directions         To:         30-Sep-2020           Closure Lane(g):         Shoulder           Direction(s):         Eastbound and Westbound           Closure Type:         Eastbound and Westbound           Closure Type:         All lanes both directions         To:         30-Sep-2020           Closure Type:         Eastbound and Westbound         Maint to the state of the	Flow Management:	Stop / Slow Control	From:		01	- Apr-20	20							
Closure Lang(s):         Shoulder           Direction(s):         Eastbound and Westbound           ILCENCE CONDITIONS         A SHOULDER CLOSURE THAT IS AT NO TIME A TRAFFICABLE LANE. FOR THE PLACEMENT OF ADVANCE WARNING SIGNAGE. MAY OCCUR DURING THE LICENSED PERIOD, ON THE CONDITION THAT THERE LICENSEE ENSURES THAT WORKSITE TRAFFIC CARRANGEMENTS INCLUDING A ROUTE AND/OR SIGNAGE. MAY OK/OCUR UNRKSITES MANUAL.         From Shift         To D         M         Time         To 0         M         May 09:00         Thu 0         7         May 17:00           SIGNAGE IN ACCORDANCE WITH TRAFFIC CONTROL AT WORKSITES MANUAL.         The INTERMITTENT TRAFFIC STOPPAGES MAY OCCUR DURING THE LICENSED PERIOD ON THE CONDITION THAT MO SIGNAGE COCURS WHILE ANY TRAFFIC IS TOPPAGES MAY OCCUR DURING THE LICENSED PERIOD ON THE CONDITION THAT MO STOPPAGE OCCURS WHILE ANY TRAFFIC IS SOLLAVED BY GENERAL CONDESTION OR ANY TRAFFIC IS STILL DELAYED BY GENERAL CONDESTION OR ANY TRAFFIC IS STILL DELAYED BY A PREVIOUS STERENCY SERVICES MUST BE INFORMED IN ADVANCE, ON EVERY OCCASION THIS LICENSE IS ACTIVATED AND GIVEN PRIORITY OF AN EMERGENCY.         Thu 14 May 09:00         Thu 14 May 17:00           YELENY OF AN EMERGENCY.         "COMPLIANT PERMANENT SIGNAGE ATT THE DESIGNATED CLOSURE POINTS MUST BE INSTALLED AND MUST INDICATE THE DATE AND TIME OF THE NEXT PROPOSED TRAFFIC STOPPAGE AND A CONTACT THE AFFIC CONTROL ARRANGEMENT TO ALLEVAYS OR QUEUES OCCUR AS A RESULT OF THE NORKSITE TRAFFIC CONTROL OR THE ACTIVITY THE TRAFFIC CONTROL ARRANGEMENT MUST IMMEDIATELY INFORMATION TO ALLEVAN WAYS BE PROXIMATE TO THE CLOSED PORTION OF ROAD.         Thu 21 May 09:00         Thu 21 May 09:00         Thu 21 May 17:00          THME	Closure Type:	All lanes both directions	То:		30	-Sep-20	020							
Direction(s):         Eatsound and Westbound           IDerection(s):         Eatsound and Westbound           6         A SHOULDER CLOSURE THAT IS AT NO TIME A TRAFFICABLE LANE, DURING THE LICENSE THAT IS AT NO TIME A TRAFFICABLE LANE, DURING THE LICENSE DEFINOL, ON THE CONDITION THAT THERE IS NEGLIGIBLE IMPACT ON ADJACENT TRAFFIC FLOW, AND, THAT THE LICENSEE ENSURES THAT WORKSITE TRAFFIC CRARANGEMENTS PROVIDE ADEQUATE FACILITIES FOR PEDESTRIANS AND BICYCLISTS, INCLUDING A ROUTE AND/OR SIGNAGE THROUGH OR AROUND THE SIGNAGE, IN ACCORDANCE WITH THE RMS TRAFFIC CONTROL AT WORKSITES MANUAL.         Toway 09:00         Fri         8 May 09:00         Fri         8 May 09:00         Sat         9 May 17:00           500 AGE, IN ACCORDANCE WITH THE RMS TRAFFIC CONTROL AT WORKSITES MANUAL.         "SHORT TIME INTERMITTENT TRAFFIC IS DELAYED BY GENERAL ONDESTION OR ANY TRAFFIC IS STULL DELAYED BY GENERAL CONGESTION OR ANY TRAFFIC IS STULL DELAYED BY GENERAL CONGESTION OR ANY TRAFFIC IS STULL DELAYED BY GENERAL THU 14 May 09:00         Tue 12 May 17:00           100 FIT EL LICENSE DERIZO DO KINST IN ILL DELAYED BY A PREVIOUS STOPPAGE         CONCURS WHILE ANY TRAFFIC STOPPAGE AND A CONTACT.           111 May 09:00         Fri         15 May 09:00         Fri         15 May 09:00         Fri         14 May 17:00           121 GMERGENCY.         COMPULAT PREMANENT SIGNAGE AT THE DESIGNATED CLOSURE POINTS MUST BE INSTITUE DAINO TO ROAD IN THE EYENT OF THE NERFOR SUBJET TRAFFIC STOPPAGE AND A CONTACT.         Thu 14 May 09:00         Fri         15 May 09:00         Fri         16 May 17:00           1	Closure Lane(s):	Shoulder												
IJCENCE CONDITIONS         A SHOULDER CLOSURE THAT IS AT NO TIME A TRAFFICABLE LANE, FOR THE PLACEMENT OF ADVANCE WARNING SIGNAGE, MAY OCCUR DURING THE LICENSE DEPRIOD. ON THE CONDITION THAT THERE IS NEGLIGIBLE IMPACT ON ADJACENT TRAFFIC FLOW, AND, THAT THE ILCENSEE ENSURES THAT WORKSTIE TRAFFIC CARRANGEMENTS PROVIDE ADEQUATE FACILITIES FOR PEDESTRIANS AND BICYCLISTS, INCLUDING A ROUTE AND/OR SIGNAGE THROUGH OR RAVOUND THE SIGNAGE, IN ACCORDANCE WITH THE RMS TRAFFIC CONTROL AT WORKSTRES MANUAL.       TO       M       Time       To       D       M       Time       To       M       Time       To       S       May       17:00         DURING THE LICENSE STON PRAUST TILE ELAYED BY APREVIOUS STOPPAGE       THE LICENSE ST	Direction(s):	Eastbound and Westbound												
LICENCE CONVENTIONS         FIGURE 11431 IS AT NO TIME A TRAFFICABLE LANE, FOR THE PLACEMENT OF ADVANCE WARNING SIGNAGE, MAY OCCUR DURING THE LICENSEED PERIOD ON THE CONDITION THAT THERE IS CONTROL ON THE CONDITION THAT THERE IS PROVIDE ADEQUATE FACILITIES FOR PEDESTRIANS AND BICYCLISTS, SIGNAGE, IN ACCORDANCE WITH THE RMS TRAFFIC CONTROL AT WORKSITES MANUAL.         To         To         D         M         Time         -         To         D         May         17:00           SIGNAGE, IN ACCORDANCE WITH THE RMS TRAFFIC CONTROL AT WORKSITES MANUAL.         NO         11         May         09:00         -         Fri         0.8         May         09:00         -         Tue         12         May         17:00           SIGNAGE, IN ACCORDANCE WITH THE RMS TRAFFIC CONTROL AT WORKSITES MANUAL.         NO         11         May         09:00         -         Tue         12         May         17:00           STOPPAGE OCCURS WHILE ANY TRAFFIC IS DELAYED BY APREVIOUS STOPPAGE OCCURS WHILE ANY TRAFFIC IS DELAYED BY A PREVIOUS STOPPAGE         Thu         14         May         09:00         -         Tue         12         May         17:00           COMELIANT PRAFFIC IS SULL DELAYED BY A PREVIOUS STOPPAGE OCCURS MUST BE INFORMED IN ADVANCE ON EVERY OCCASION THIS LICENSE IS ACTIVATED AND GIVEN PRIORITY ACCESS THROUGH THE CLOSED PORTION OF ROAD IN THE EVENT OF AN EMERGENCY.         Thu         18         May         09:00         -         Thu		TIONS		4000					<u> </u>					
b         A SHOULDER LOUSDRE IFAITS AT NUTTIME A TRAFFIC ABLE LANGE. FOR THE PLACEMENTO F ADVANCE WARNING SIGNAGE MAY OCCUR DURING THE LICENSED PERIOD, ON THE CONDITION THAT THERE IS NEGLIGIBLE IMPACT ON ADJACENT TRAFFIC ARRANGEMENTS INCLUDING A ROUTE AND/OR SIGNAGE THROUGH OR AROUND THE LICENSEE ENSURES THAT WORKSITE TRAFFIC OR RANOEMENTS INCLUDING A ROUTE AND/OR SIGNAGE THROUGH OR AROUND THE SIGNAGE IN ACCORDANCE WITH THE RMS TRAFFIC CONTROL AT WKRSITES MANUAL.         Thu         07         May         17:00           SIGNAGE IN ACCORDANCE WITH THE RMS TRAFFIC CONTROL AT WKRSITES MANUAL.         The INTERMITT TRAFFIC STOPPAGES MAY OCCUR SIGNAGE IN ACCORDANCE WITH THE RMS TRAFFIC CONTROL AT WKRSITES MANUAL.         Thu         10         May         09:00         -         Tue         12         May         17:00           SIGNAGE IN ACCORDANCE WITH THE RMS TRAFFIC OSDIPAGES MAY OCCUR SIGNAGE IN ACCORDANCE WITH THE RMS TRAFFIC OSDIPAGES MAY OCCUR         Tue         12         May         09:00         -         Tue         12         May         17:00           COMCENS WHILE ANY TRAFFIC IS DELAYED BY GENERAL CONGENT WEEK MORE SINCES MUST BE INFORMED IN ADVANCE, ON * UVERY OCCASION THIS LICENSE IS ACTIVATED AND GIVEN PRORITY ACCESS THROUGH THE CLOSED PORTION OF ROAD IN THE EVENT OC AN EMERGENCY.         Fri         14         May         09:00         -         Tue         19         May         17:00           YCENT MUST IMMENT SIGNAGE AT THE DESIGNATED CLOSURE THE NEAT RUPROPSED TRAFFIC SOURD OF ROAD IN THE EVENT OC AN EMERGENCY.         Tue         16         May<		CLOCUDE THAT IS AT NO TIME A TRAFFICARIE					ESQI		>	Та	01:4			
DURING THE LICENSED PERIOD, ON THE CONDITION THAT THERE IS         Inite         To         To </th <th rowspan="2">FOR THE PLAC DURING THE L</th> <th>CLOSORE THAT IS AT NO TIME A TRAFFICABLE CEMENT OF ADVANCE WARNING SIGNAGE, MA'</th> <th>Y OCCUR</th> <th>From</th> <th>From</th> <th></th> <th>Time</th> <th></th> <th>Та</th> <th></th> <th>Snint</th> <th>Time</th>	FOR THE PLAC DURING THE L	CLOSORE THAT IS AT NO TIME A TRAFFICABLE CEMENT OF ADVANCE WARNING SIGNAGE, MA'	Y OCCUR	From	From		Time		Та		Snint	Time		
ILCENDELE INFACT ON ADJACE OT ADJACE AT THE PERFER ARRANGEMENTS         PROVIDE ADEQUATE FACILITIES FOR PEDESTRIANS AND BICYCLISTS,         PROVIDE ADEQUATE FACILITIES FOR PEDESTRIANS AND BICYCLISTS,         SIGNAGE, IN ACCORDANCE WITH THE RNS TRAFFIC CONTROL AT         WORKSITES MANUAL.         * SHORT TIME INTERMITTENT TRAFFIC STOPPAGES MAY OCCUR         DURING THE LICENSED PERIOD ON THE CONDITION THAT NO         STOPPAGE OCCURS WHILE ANY TRAFFIC IS DELAYED BY GENERAL         CONGESTION OR ANY TRAFFIC IS STILL DELAYED BY GENERAL         CONGESTION OR ANY TRAFFIC DE STRIANS AND BICYCLISTS,         STOPPAGE OCCURS WHILE ANY TRAFFIC STOPPAGES MAY OCCUR         VERY OCCASION THIS LICENSE IS ACTIVATED AND GIVEN PRIORITY         ACCESS THROUGH THE CLOSED PORTION OF ROAD IN THE EVENT         OF AN EMERGENCY.         * COMPLIANT PERMANENT SIGNAGE AT THE DESIGNATED CLOSURE         POINTS MUST BE INSTALLED AND MUST INDICATE THE DATE AND         TITLE OF THE INEXT PROPOSED TRAFFIC STOPPAGE AND A CONTACT         TRAFFIC CONTROL SUPERVISOR MUST INDICATE THE DATE AND         TRAFFIC CONTROL ARANGEMENT TO ENSURE THAFFIC DELAYS OR QUEUES AND A CONTACT         TRAFFIC DELAY.         * SHOULD SIGNIFICANT TRAFFIC DELAYS OR QUEUES AND A CONTACT         TRAFFIC CONTROL ARANGEMENT CENTRE ON ALLY ADDRESS         END OF QUEUE MANAGEMENT TO ENSURE THAFFIC CONTROL THE ACTIVITY, THE         TRAFFIC DELAY. <td>ICENSED PERIOD, ON THE CONDITION THAT TI</td> <td></td> <td>Thu</td> <td>07</td> <td>Mov</td> <td></td> <td>-</td> <td>Thu</td> <td>07</td> <td>Mov</td> <td>17:00</td>		ICENSED PERIOD, ON THE CONDITION THAT TI		Thu	07	Mov		-	Thu	07	Mov	17:00		
PROVIDE ADEQUATE FACILITIES FOR PEDESTRIANS AND BICYCLISTS, INCLUDING A ROUTE AND/OR SIGNAGE THROUGH OR AROUND THE SIGNAGE, IN ACCORDANCE WITH THE RMS TRAFFIC CONTROL AT WORKSITES MANUAL.         Sat         09         May         05:00         Sat         09         May         17:00           *SHORT TIME INTERMITTENT TRAFFIC STOPPAGES MAY OCCUR WORKSITES MANUAL.         *ShORT TIME INTERMITTENT TRAFFIC STOPPAGES MAY OCCUR STOPPAGE OCCURS WHILE ANY TRAFFIC STOPPAGE MAY OCCUR STOPPAGE OCCURS WHILE ANY TRAFFIC IS DELAYED BY GENERAL CONGESTION OR ANY TRAFFIC IS STILL DELAYED BY GENERAL CONCESTION OR ANY TRAFFIC IS STILL DELAYED BY GENERAL CONCESTION OR ANY TRAFFIC IS STILL DELAYED BY GENERAL CONCESTION OR ANY TRAFFIC STOPPAGE AND A CONTACT TELEPHONE NUMBER FOR PUBLIC INQUIRES.         Tiu         14         May         09:00         -         Tuu         12         May         17:00           COMPLIANT PERMANENT SIGNAGE AT THE DESIGNATED CLOSURE TRANSPORT FOR NUST BE INSTALLED AND MUST INDICATE THE DATE AND OF AN EMERGENCY.         Tuu         19         May         09:00         -         Tuu         19         May         09:00         -         Tuu         19         May         17:00           THE LICENON THIS LICEANT TRAFFIC STOPPAGE AND A CONTACT TRAFFIC CONTROL SUPERVISOR MUST IMDICATE THE DATE AND TRAFFIC CONTROL SUPERVISOR MUST IMMEDIATELY INFORM THE TRAFFIC CONTROL ARRANGEMENT CENTRE OF AND A CONTACT TRAFFIC CONTROL ARRANGEMENT TO ENSURE THAT MOTORISTS ARE END OF OLUEUE MANAGEMENT TO ENSURE THAT MOTORISTS ARE ADEQUATELY WARNED BEFORE ARRIVAL AT THE END OF ANY QUEUE ANISING FROM THE TRAFFIC OTHE CLOSED PORTION OF ROAD. <td>LICENSEE EN</td> <td>URES THAT WORKSITE TRAFFIC ARRANGEME</td> <td>NTS</td> <td>Eri</td> <td>07</td> <td>Mov</td> <td>09.00</td> <td>-</td> <td>Eri</td> <td>07</td> <td>Mov</td> <td>17.00</td>	LICENSEE EN	URES THAT WORKSITE TRAFFIC ARRANGEME	NTS	Eri	07	Mov	09.00	-	Eri	07	Mov	17.00		
SIGNAGE, NACCORDANCE WITH THE INSTRAFFIC CONTROL TATE       May 03:00       -       May 03:00       -       Mon       11       May 07:00         SIGNAGE, NAULAL.       Mon       11       May 03:00       -       Tue       12       May 07:00         SIGNAGE, NAULAL.       Mon       11       May 03:00       -       Tue       12       May 17:00         DURING THE LICENSED PERIOD ON THE CONDITION THAT NO       STOPPAGE       CONGESTION OR ANY TRAFFIC IS DELAYED BY GENERAL       Tue       12       May 09:00       -       Tue       12       May 17:00         STOPPAGE       CONGESTION OR ANY TRAFFIC IS DELAYED BY GENERAL       Thu       14       May 09:00       -       Thu       14       May 17:00         STOPPAGE       COMPLIANT PERMANENT SIGNAGE AT THE DESIGNATED CLOSURE       Fri       15       May 09:00       -       Tue       19       May 09:00       -       Tue       19       May 17:00         TIME OF THE NEXT PROPOSED TRAFFIC DELAYS OR QUEUES OCCUR AS A       RESULT OF THE WARKSITE TRAFFIC DELAYS OR QUEUES OCCUR AS A       Thu       21       May 09:00       -       Tue       19       May 09:00       -       Fri       22       May 09:00       -       Fri       22       May 09:00       -       Fri       22		QUATE FACILITIES FOR PEDESTRIANS AND BIO	YCLISTS,	Sat	00	May	09.00	-	Sat	00	May	17.00		
WORKSITES MANUAL.         India y         India y <thindia th="" y<="">         India y         <thindia th="" y<=""></thindia></thindia>	SIGNAGE, IN A	CCORDANCE WITH THE RMS TRAFFIC CONTROL	DL AT	Mon	11	May	09.00	-	Mon	11	May	17.00		
DURING THE LICENSED PERIOD ON THE CONDITION THAT NO         The Condition thate no         The Condition that no         The	WORKSITES N * SHORT TIME	IANUAL. INTERMITTENT TRAFFIC STOPPAGES MAY OCI			12	May	09.00	-		12	May	17.00		
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* EMERGENCY SERVICES MUST BE INFORMED IN ADVANCE, ON       The first first of the state of the	STOPPAGE.			Fri	15	May	09.00	-	Fri	15	May	17:00		
ACCESS THROUGH THE CLOSED PORTION OF ROAD IN THE EVENT OF AN EMERGENCY. * COMPLIANT PERMANENT SIGNAGE AT THE DESIGNATED CLOSURE POINTS MUST BE INSTALLED AND MUST INDICATE THE DATE AND TIME OF THE NEXT PROPOSED TRAFFIC STOPPAGE AND A CONTACT TELEPHONE NUMBER FOR PUBLIC INQUIRIES. *SHOULD SIGNIFICANT TRAFFIC DELAYS OR QUEUES OCCUR AS A RESULT OF THE WORKSITE TRAFFIC CONTROL OR THE ACTIVITY, THE TRAFFIC CONTROL SUPERVISOR MUST IMMEDIATELY INFORM THE TRANSPORT FOR NSW TRANSPORT MANAGEMENT CENTRE ON 1300 725 886 AND A DDRESS THE ISSUE TAKING ACTION TO ALLEVIATE TRAFFIC CONTROL ARRANGEMENTS MUST SPECIFICALLY ADDRESS END OF QUEUE MANAGEMENT TO ENSURE THAT MOTORISTS ARE ADEQUATELY WARNED BEFORE ARRIVAL AT THE END OF ANY QUEUE ARISING FROM THE TRAFFIC CONTROL. *EQUIPMENT TO CLEAR POTENTIAL FLYROCK FROM ROADWAYS MUST ALWAYS BE PROXIMATE TO THE CLOSED PORTION OF ROAD. MON 01 JUN 09:00 - Thu 28 May 17:00 Tuu 02 JUN 09:00 - Thu 28 May 17:00 Tuu 02 JUN 09:00 - Thu 28 May 17:00 Tuu 02 JUN 09:00 - Thu 28 May 17:00 Fri 29 May 09:00 - Thu 28 May 17:00 Tuu 02 JUN 09:00 - Thu 28 May 17:00 Fri 29 May 09:00 - Thu 28 May 17:00 Tuu 02 JUN 09:00 - Thu 28 May 17:00 Tuu 02 JUN 09:00 - Thu 04 JUN 17:00 Sat 06 JUN 09:00 - Thu 04 JUN 17:00 Sat 06 JUN 09:00 - Thu 04 JUN 17:00 Sat 06 JUN 09:00 - Thu 04 JUN 17:00	* EMERGENCY EVERY OCCAS	' SERVICES MUST BE INFORMED IN ADVANCE, SION THIS LICENSE IS ACTIVATED AND GIVEN F		Sat	16	May	09.00	-	Sat	16	May	17:00		
OF AN EMERGENCY.       International internationalinternation internatinaly interating international interest intern	ACCESS THR	DUGH THE CLOSED PORTION OF ROAD IN THE I	EVENT	Mon	18	May	09.00	-	Mon	18	May	17.00		
POINTS MUST BE INSTALLED AND MUST INDICATE THE DATE AND TIME OF THE NEXT PROPOSED TRAFFIC STOPPAGE AND A CONTACT TELEPHONE NUMBER FOR PUBLIC INQUIRES.       Wed       20       May       09:00       Wed       20       May       17:00         THE PHONE NUMBER FOR PUBLIC INQUIRES.       SHOULD SIGNIFICANT TRAFFIC DELAYS OR QUEUES OCCUR AS A RESULT OF THE WORKSITE TRAFFIC CONTROL OR THE ACTIVITY, THE TRAFFIC CONTROL SUPERVISOR MUST IMMEDIATELY INFORM THE TRAFFIC CONTROL SUPERVISOR MUST IMMEDIATELY INFORM THE TRAFFIC CONTROL ARRANGEMENTS MUST SPECIFICALLY ADDRESS END OF QUEUE MANAGEMENT TO ENSURE THAT MOTORISTS ARE ADEQUATELY WARNED BEFORE ARRIVAL AT THE END OF ANY QUEUE ARISING FROM THE TRAFFIC CONTROL.       % Wed       27       May       09:00       Fri       29       May       17:00         Wed       20       MAY       09:00       -       Fri       22       May       17:00         Sat       23       May       09:00       -       Fri       22       May       17:00         Value       4       May       09:00       -       Tue       26       May       09:00       -       Tue       26       May       17:00         Value       4       Value       ANAGEMENT O ENSURE THAT MOTORISTS ARE ADEQUATELY WARNED BEFORE ARRIVAL AT THE END OF ROAD.       Nay       09:00       -       Fri       29       May       17:00         Wast       ALWAYS	* COMPLIANT	ENCY. PERMANENT SIGNAGE AT THE DESIGNATED CL	OSURE	Tue	19	Mav	09:00	-	Tue	19	Mav	17:00		
THE OF THE NEXT PROPOSED TRAFFIC STOPPAGE AND A CONTACT TELEPHONE NUMBER FOR PUBLIC INQUIRIES. *SHOULD SIGNIFICANT TRAFFIC DELAYS OR QUEUES OCCUR AS A RESULT OF THE WORKSITE TRAFFIC CONTROL OR THE ACTIVITY, THE TRAFFIC CONTROL SUPERVISOR MUST IMMEDIATELY INFORM THE TRANSPORT FOR NSW TRANSPORT MANAGEMENT CENTRE ON 1300 725 886 AND ADDRESS THE ISSUE TAKING ACTION TO ALLEVIATE TRAFFIC DELAY. *TRAFFIC DELAY. *TRAFFIC CONTROL ARRANGEMENTS MUST SPECIFICALLY ADDRESS END OF QUEUE MANAGEMENT TO ENSURE THAT MOTORISTS ARE ADEQUATELY WARNED BEFORE ARRIVAL AT THE END OF ANY QUEUE ARISING FROM THE TRAFFIC CONTROL. *EQUIPMENT TO CLEAR POTENTIAL FLYROCK FROM ROADWAYS MUST ALWAYS BE PROXIMATE TO THE CLOSED PORTION OF ROAD. *URAFFIC 2 Jun 09:00 - Tue 02 Jun 17:00 Wed 03 Jun 09:00 - Tue 02 Jun 17:00 Tue 02 Jun 09:00 - Tue 02 Jun 17:00 Wed 03 Jun 09:00 - Thu 04 Jun 17:00 Thu 04 Jun 09:00 - Thu 04 Jun 17:00 Fri 05 Jun 09:00 - Fri 05 Jun 17:00	POINTS MUST	BE INSTALLED AND MUST INDICATE THE DATE	AND	Wed	20	Mav	09:00	-	Wed	20	Mav	17:00		
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RESULT OF THE WORKSITE TRAPPIC CONTROL OF INFOLOTELY INFORM THE ACTIVITY, THE         TRANSPORT FOR NSW TRANSPORT MUST IMMEDIATELY INFORM THE         TRANSPORT FOR NSW TRANSPORT MANAGEMENT CENTRE ON 1300         725 886 AND ADDRESS THE ISSUE TAKING ACTION TO ALLEVIATE         TRAFFIC CONTROL ARRANGEMENTS MUST SPECIFICALLY ADDRESS         END OF QUEUE MANAGEMENT TO ENSURE THAT MOTORISTS ARE         ADEQUATELY WARNED BEFORE ARRIVAL AT THE END OF ANY QUEUE         ARISING FROM THE TRAFFIC CONTROL.         * EQUIPMENT TO CLEAR POTENTIAL FLYROCK FROM ROADWAYS         MUST ALWAYS BE PROXIMATE TO THE CLOSED PORTION OF ROAD.         Mon       01         Mon       01         Jun       09:00         Sat       30         May       17:00         MUST ALWAYS BE PROXIMATE TO THE CLOSED PORTION OF ROAD.         Mon       01       Jun       09:00       -       Fri       29       May       17:00         Must ALWAYS BE PROXIMATE TO THE CLOSED PORTION OF ROAD.       Mon       01       Jun       09:00       -       Tue       02       Jun       17:00         Must ALWAYS BE PROXIMATE TO THE CLOSED PORTION OF ROAD.       Mon       01       Jun       09:00       -       Tue       02       Jun       17:00         Must ALWAYS BE PROXIMATE TO THE CL	* SHOULD SIG	NIFICANT TRAFFIC DELAYS OR QUEUES OCCU		Fri	22	May	09:00	-	Fri	22	May	17:00		
TRANSPORT FOR NSW TRANSPORT MANAGEMENT CENTRE ON 1300 725 886 AND ADDRESS THE ISSUE TAKING ACTION TO ALLEVIATE TRAFFIC DELAY.       Mon       25       May       09:00       -       Mon       25       May       17:00         * TRAFFIC DELAY.       * TRAFFIC CONTROL ARRANGEMENTS MUST SPECIFICALLY ADDRESS END OF QUEUE MANAGEMENT TO ENSURE THAT MOTORISTS ARE ADEQUATELY WARNED BEFORE ARRIVAL AT THE END OF ANY QUEUE ARISING FROM THE TRAFFIC CONTROL.       * EQUIPMENT TO CLEAR POTENTIAL FLYROCK FROM ROADWAYS MUST ALWAYS BE PROXIMATE TO THE CLOSED PORTION OF ROAD.       May       09:00       -       Tue       28       May       17:00         Sat       30       May       09:00       -       Tue       28       May       17:00         Wed       27       May       09:00       -       Thu       28       May       09:00       -       Thu       28       May       17:00         ARISING FROM THE TRAFFIC CONTROL.       *       *       EQUIPMENT TO CLEAR POTENTIAL FLYROCK FROM ROADWAYS MUST ALWAYS BE PROXIMATE TO THE CLOSED PORTION OF ROAD.       Sat       30       May       09:00       -       Fri       29       May       17:00         Wed       03       Jun       09:00       -       Tue       02       Jun       17:00         Was       09:00       -       Tue       02       Jun <td>TRAFFIC CON</td> <td>TROL SUPERVISOR MUST IMMEDIATELY INFOR</td> <td>M THE</td> <td>Sat</td> <td>23</td> <td>May</td> <td>09:00</td> <td>-</td> <td>Sat</td> <td>23</td> <td>May</td> <td>17:00</td>	TRAFFIC CON	TROL SUPERVISOR MUST IMMEDIATELY INFOR	M THE	Sat	23	May	09:00	-	Sat	23	May	17:00		
TRAFFIC DELAY.       * TRAFFIC CONTROL ARRANGEMENTS MUST SPECIFICALLY ADDRESS END OF QUEUE MANAGEMENT TO ENSURE THAT MOTORISTS ARE ADEQUATELY WARNED BEFORE ARRIVAL AT THE END OF ANY QUEUE ARISING FROM THE TRAFFIC CONTROL.       Tue       26       May       09:00       -       Tue       26       May       17:00         * EQUIPMENT TO CLEAR POTENTIAL FLYROCK FROM ROADWAYS MUST ALWAYS BE PROXIMATE TO THE CLOSED PORTION OF ROAD.       Tue       28       May       09:00       -       Thu       28       May       17:00         Wed       27       May       09:00       -       Fri       29       May       09:00       -       Thu       28       May       17:00         MUST ALWAYS BE PROXIMATE TO THE CLOSED PORTION OF ROAD.       Fri       29       May       09:00       -       Fri       29       May       17:00         Mon       01       Jun       09:00       -       Sat       30       May       17:00         Wed       03       Jun       09:00       -       Tue       02       Jun       17:00         Wed       03       Jun       17:00       Fri       05       Jun       17:00         Kas       Go       Jun       09:00       -       Tue       02       Jun       17:00 </td <td></td> <td>OR NSW TRANSPORT MANAGEMENT CENTRE</td> <td>ON 1300</td> <td>Mon</td> <td>25</td> <td>May</td> <td>09:00</td> <td>-</td> <td>Mon</td> <td>25</td> <td>May</td> <td>17:00</td>		OR NSW TRANSPORT MANAGEMENT CENTRE	ON 1300	Mon	25	May	09:00	-	Mon	25	May	17:00		
* TRAFFIC CONTROL ARRANGEMENTS MUST SPECIFICALLY ADDRESS END OF QUEUE MANAGEMENT TO ENSURE THAT MOTORISTS ARE ADEQUATELY WARNED BEFORE ARRIVAL AT THE END OF ANY QUEUE ARISING FROM THE TRAFFIC CONTROL.       Wed       27       May       09:00       -       Wed       27       May       17:00         * EQUIPMENT TO CLEAR POTENTIAL FLYROCK FROM ROADWAYS MUST ALWAYS BE PROXIMATE TO THE CLOSED PORTION OF ROAD.       Fri       29       May       09:00       -       Fri       29       May       17:00         Mon       01       Jun       09:00       -       Sat       30       May       09:00       -       Fri       29       May       17:00         Must ALWAYS BE PROXIMATE TO THE CLOSED PORTION OF ROAD.       Mon       01       Jun       09:00       -       Mon       01       Jun       17:00         Wed       03       Jun       09:00       -       Mon       01       Jun       17:00         Wed       03       Jun       09:00       -       Thu       02       Jun       17:00         Fri       05       Jun       09:00       -       Thu       04       Jun       17:00         Mon       01       Jun       09:00       -       Thu       04       Jun       17:00	TRAFFIC DELA	AY.		Tue	26	May	09:00	-	Tue	26	May	17:00		
ADEQUATELY WARNED BEFORE ARIVAL AT THE END OF ANY QUEUE       Thu       28       May       09:00       -       Thu       28       May       17:00         ARISING FROM THE TRAFFIC CONTROL.       * EQUIPMENT TO CLEAR POTENTIAL FLYROCK FROM ROADWAYS       Fri       29       May       09:00       -       Fri       29       May       17:00         MUST ALWAYS BE PROXIMATE TO THE CLOSED PORTION OF ROAD.       Sat       30       May       09:00       -       Sat       30       May       17:00         Wed       03       Jun       09:00       -       Thu       100	* TRAFFIC CO	NTROL ARRANGEMENTS MUST SPECIFICALLY A		Wed	27	May	09:00	-	Wed	27	May	17:00		
ARISING FROM THE TRAFFIC CONTROL.       * EQUIPMENT TO CLEAR POTENTIAL FLYROCK FROM ROADWAYS         MUST ALWAYS BE PROXIMATE TO THE CLOSED PORTION OF ROAD.       Fri       29       May       09:00       -       Fri       29       May       17:00         Sat       30       May       09:00       -       Sat       30       May       17:00         Weight of the second	ADEQUATELY	WARNED BEFORE ARRIVAL AT THE END OF AN		Thu	28	May	09:00	-	Thu	28	May	17:00		
MUST ALWAYS BE PROXIMATE TO THE CLOSED PORTION OF ROAD.       Sat       30       May       09:00       -       Sat       30       May       17:00         Mon       01       Jun       09:00       -       Mon       01       Jun       17:00         Tue       02       Jun       09:00       -       Tue       02       Jun       17:00         Wed       03       Jun       09:00       -       Wed       03       Jun       17:00         Thu       04       Jun       09:00       -       Thu       04       Jun       17:00         Fri       05       Jun       09:00       -       Thu       04       Jun       17:00         Sat       06       Jun       09:00       -       Thu       04       Jun       17:00		A THE TRAFFIC CONTROL.		Fri	29	May	09:00	-	Fri	29	May	17:00		
Mon       01       Jun       09:00       -       Mon       01       Jun       17:00         Tue       02       Jun       09:00       -       Tue       02       Jun       17:00         Wed       03       Jun       09:00       -       Wed       03       Jun       17:00         Thu       04       Jun       09:00       -       Thu       04       Jun       17:00         Fri       05       Jun       09:00       -       Tri       05       Jun       17:00         Sat       06       Jun       09:00       -       Fri       05       Jun       17:00	MUST ALWAY	S BE PROXIMATE TO THE CLOSED PORTION OF	ROAD.	Sat	30	May	09:00	-	Sat	30	May	17:00		
Tue       02       Jun       09:00       -       Tue       02       Jun       17:00         Wed       03       Jun       09:00       -       Wed       03       Jun       17:00         Thu       04       Jun       09:00       -       Thu       04       Jun       17:00         Fri       05       Jun       09:00       -       Fri       05       Jun       17:00         Sat       06       Jun       09:00       -       Sat       06       Jun       17:00				Mon	01	Jun	09:00	-	Mon	01	Jun	17:00		
Wed       03       Jun       09:00       -       Wed       03       Jun       17:00         Thu       04       Jun       09:00       -       Thu       04       Jun       17:00         Fri       05       Jun       09:00       -       Fri       05       Jun       09:00       -       Fri       05       Jun       17:00         Sat       06       Jun       09:00       -       Sat       06       Jun       17:00				Tue	02	Jun	09:00	-	Tue	02	Jun	17:00		
Thu       04       Jun       09:00       -       Thu       04       Jun       17:00         Fri       05       Jun       09:00       -       Fri       05       Jun       17:00         Sat       06       Jun       09:00       -       Sat       06       Jun       17:00				Wed	03	Jun	09:00	-	Wed	03	Jun	17:00		
Fri 05 Jun 09:00 - Fri 05 Jun 17:00 Sat 06 Jun 09:00 - Sat 06 Jun 17:00				Thu	04	Jun	09:00	-	Thu	04	Jun	17:00		
Sat 06 Jun 09:00 - Sat 06 Jun 17:00				Fri	05	Jun	09:00	-	Fri	05	Jun	17:00		
				Sat	06	Jun	09:00	-	Sat	06	Jun	17:00		
Mon 08 Jun 09:00 - Mon 08 Jun 17:00				Mon	08	Jun	09:00	-	Mon	08	Jun	17:00		
Tue 09 Jun 09:00 - Tue 09 Jun 17:00				Tue	09	Jun	09:00	-	Tue	09	Jun	17:00		
Wed 10 Jun 09:00 - Wed 10 Jun 17:00				Wed	10	Jun	09:00	-	Wed	10	Jun	17:00		
Thu 11 Jun 09:00 - Thu 11 Jun 17:00				Thu	11	Jun	09:00	-	Thu	11	Jun	17:00		

All pages of this Road Occupancy Licence and associated Speed Zone Authorisation(s) must be available on site at all times and must be produced for inspection when requested by representatives of NSW Police, Roads & Maritimes Services, Transport for NSW and other Government Agencies.



### LICENCE NO : 1365906

#### **ROADS & MARITIME SERVICES (RMS)**

#### Phone: 1300 656 371 Monday To Friday 8.30 AM - 4.30 PM

To activate and deactivate your approved work shift(s) on your Road Occupancy Licence, please visit: myrol.transport.nsw.gov.au. This licence is for the occupation of the road space only. If you are unable to access myrol.transport.nsw.gov.au, please call TMC on 1800 679 782. For further assistance, please refer to the proponent's user manual here: myrol.transport.nsw.gov.au/help.pdf

NON DEVELOPMENT - NOT KNOWN		LOCATI	ON										
Project:	Not Applicable Subje		ect Road:		Golden Highway								
This Activity :	Temporary Road Closure for Blasting	From:		Co	mleroi	Road, W	ARK	WORTH	I				
		To:		Pir	egrove	e road, W	/arkw	orth NS	W				
		Council:		SI	IGLET	ON							
LICENSEE		ONSITE	CONT	ACT									
Organisation:	Wambo Coal Pty Ltd	Name:		Jef	f Hanlo	on (Open	Cut	Mine Ma	anager	<i>'</i> )			
Ref No:		Phone:		04	176476	671							
Name:	Dale Harmour												
Phone:	0408969988												
TRAFFIC MANA	GEMENT	LICENC			N								
Flow Management	: Stop / Slow Control	From:		01	Apr-20	)20							
Closure Type:	All lanes both directions	To:		30-	Sep-2	020							
Closure Lane(s):	Shoulder												
Direction(s):	Eastbound and Westbound												
			APPR	OVE	D DAT	ES & T	IME	S					
				From	n Shift				То	Shift			
			From	D	М	Time	-	То	D	М	Time		
			Fri	12	Jun	09:00	-	Fri	12	Jun	17:00		
			Sat	13	Jun	09:00	-	Sat	13	Jun	17:00		
			Mon	15	Jun	09:00	-	Mon	15	Jun	17:00		
			Tue	16	Jun	09:00	-	Tue	16	Jun	17:00		
			Wed	17	Jun	09:00	-	Wed	17	Jun	17:00		
			Thu	18	Jun	09:00	-	Thu	18	Jun	17:00		
			Fri	19	Jun	09:00	-	Fri	19	Jun	17:00		
			Sat	20	Jun	09:00	-	Sat	20	Jun	17:00		
			Mon	22	Jun	09:00	-	Mon	22	Jun	17:00		
			Tue	23	Jun	09:00	-	Tue	23	Jun	17:00		
			Wed	24	Jun	09:00	-	Wed	24	Jun	17:00		
			Thu	25	Jun	09:00	-	l hu	25	Jun	17:00		
			Fri	26	Jun	09:00	-	Fri	26	Jun	17:00		
			Sat	27	Jun	09:00	-	Sat	27	Jun	17:00		
			Tue	29	Jun	09:00	-	Mon	29	Jun	17:00		
			Wod	01	Jun	09.00	-	Nod	01	Jun	17.00		
			Thu	07	Jul	09.00	-	Thu	07	Jul	17.00		
			Fri	02	Jul	09.00	_	Fri	02	Jul	17.00		
			Sat	03	Jul	09.00	_	Sat	03	Jul	17.00		
			Mon	06	Jul	09.00	_	Mon	06	Jul	17:00		
			Tue	07	Jul	09:00	-	Tue	07	Jul	17:00		
			Wed	08	Jul	09:00	-	Wed	08	Jul	17:00		
			Thu	09	Jul	09:00	-	Thu	09	Jul	17:00		
			Fri	10	Jul	09:00	-	Fri	10	Jul	17:00		
			Sat	11	Jul	09:00	-	Sat	11	Jul	17:00		
			Mon	13	Jul	09:00	-	Mon	13	Jul	17:00		
			Tue	14	Jul	09:00	-	Tue	14	Jul	17:00		

All pages of this Road Occupancy Licence and associated Speed Zone Authorisation(s) must be available on site at all times and must be produced for inspection when requested by representatives of NSW Police, Roads & Maritimes Services, Transport for NSW and other Government Agencies.

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### LICENCE NO : 1365906

#### **ROADS & MARITIME SERVICES (RMS)**

#### Phone: 1300 656 371 Monday To Friday 8.30 AM - 4.30 PM

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Project: This Activity:         Not Applicable Tamporary Road Closure for Blasting         Subject Road: From: Commetrix Road, WARKWORTH To: Pringerow road, WARKWORTH SINCLETON           UCENSEE         Organisation: Mame:         Mame: Date Harnour Phone:         Offer Offer Odd986988           TRAFFIC MANAGEMENT Phone:         Dide Harnour Odd9869888         Dide Harnour Phone:         Offer Offer Odd986988         Dide Harnour Odd986988           TRAFFIC MANAGEMENT Phone:         LICENCE DURATION From:         01-Apr-2020 01-7647671         To Shift           Closure Lange(): Shoulder         Shoulder         Shoulder         To Shift         To Shift           From:         01-Apr-2020 03-Sep-2020         To Shift         To Shift         To Shift           Direction(s):         Eastbound and Westbound         From:         01-Apr-2020 0         Stat         18         Jul 09:00         To Shift         To Shift           From 20         Autor         To Shift         To Shift         To Shift         To Shift         To Shift           View         22         Jul 09:00         Twe         Z         Jul 17:00 Twe         To Sat         To Sat         To Sat         Sat         Sat         Sat         Sat         Jul 17:00 Twe           Jul 09:00         From         Jul 09:00         Twe         Z	NON DEVELOP	ON DEVELOPMENT - NOT KNOWN		ON								
This Activity :         Temporary Road Closure for Blasting         From: To: Pinegrove and, Warkworth NSW Council:         Stonelier Road, WaRkWORTH To: SINGLETON           LICENSEE         ONSITE CONTACT         Name: Jeft Hanlon (Open Cut Mine Manager) Phone:         Other Manager) Manager           RI No: Date Hammour Phone:         Date Hammour D408969988         Norman: D408969988         Jeft Hanlon (Open Cut Mine Manager) Phone:         Very State Manager           TRAFFIC MANAGEMENT Phone:         LICENCE DURATION From:         01/7647671           Flow Management:         Stop / Stow Control         From: From:         01/7647671           Direction(s):         Stop / Stow Control         From: Eastbound and Westbound         To: 30-Sep-2020           Direction(s):         Eastbound and Westbound         To: 30-Sep-2020         To: 30-Sep-2020           Direction(s):         Eastbound and Westbound         M         Time 5 to 0         M           Thu:         23         Jul 09:00         -         To: 30-Sep-2020         State 1           Thu:         23         Jul 09:00         -         To: 30-Sep-2020         State 1         Jul 17:00           The:         Tro: 24-Jul 17:00         Time 24-Jul 09:00         -         To: 30-Sep 2020         -         To: 30-Jul 17:00           The:         24-Jul 09:00	Project:	Not Applicable	Subject Road: From:		Golden Highway							
To:         Pinegrove road, Warkworth NSW Couneit:         SiNGLETON           LICENSEE         ONSITE CONTACT         Name:         Jeff Hanlon (Open Cut Mine Manager)           Rel No:         Dale Harmour         Phone:         0417647671           Name:         Dale Harmour         Phone:         0417647671           Phone:         0408909988         TEAFFIC MANAGEMENT         LICENCE DURATION           Flow Management:         Stoy / Slow Control         From:         01-Apr-2020           Cleaure Type:         All lanes both directions         To:         30-Sep-2020           Cleaure Type:         Shoulder         To:         30-Sep-2020           Cleaure Type:         Should rections         To:         To:           Direction(e):         Eastbound and Westbound         To:         To:           Tu:         21 Jul 09:00         True:	This Activity :	Temporary Road Closure for Blasting			Comleroi Road, WARKWORTH							
Council:         SINGLETON           LICENSEE         ONSITE CONTACT           Organisation:         Wambo Coal Pty Ltd         Name:         Jeff Hanlon (Open Cut Mine Manager)           Phone:         0408969988         Phone:         0417647671           TRAFFIC MANAGEMENT         LICENCE DURATION         From::         0147647671           Flow Management:         Stoy JStow Control         From::         0147647671           Closure Type:         All lanes both directions         To::         30-Sep-2020           Closure Type:         All lanes both directions         To::         10-M Time:         To::           Stat 10:         Juli 0:0:00         The::         10-M Time:         10-M Time:			To:		Pir	egrove	e road, W	/arkw	orth NS	W		
LICENSEE         ONSITE CONTACT           Organisation:         Wambo Coal Ply Ltd         Name:         Jeff Hanlon (Open Cut Mine Manager)           Name:         Dale Harmour         Phone:         0417647671           Name:         Dale Harmour         040989988         0417647671           TRAFFIC MANAGEMENT         LICENCE DURATION         From:         01-Apr-2020           Closure Type:         All anes both directions         To:         30-Sep-2020           Closure Lane(s):         Shoulder         To:         30-Sep-2020           Closure Lane(s):         Shoulder         To:         30-Sep-2020           Closure Lane(s):         Eastbound and Westbound         To:         30-Sep-2020           Closure Lane(s):         Shoulder         Direction(s):         To:         30-Sep-2020           Closure Jape:         Erom Shift         To:         Stat         18         Jul 17:00           Tue 21         Jul 09:00         Stat         18         Jul 17:00         True 23         Jul 69:00         Fria         24         Jul 17:00           Tue 23         Jul 09:00         Fria         24         Jul 17:00         True 23         Jul 17:00           Tue 24         Jul 09:00         Fria			Council:		SI	IGLET	ON					
Organisation:         Wambo Coal Pty Ltd         Name: Phone:         Jeff Hanlon (Open Cut Mine Manager)           Name:         Dale Harmour         Phone:         0417647671           Name:         Dale Harmour         Phone:         0417647671           Phone:         0408969988         FTAFFIC MANAGEMENT         LICENCE DURATION           From:         01-Apr-2020         To:         30-Sep-2020           Closure Type:         All lanes both directions         To:         30-Sep-2020           Closure Type:         Shoulder         To:         30-Sep-2020           Closure Type:         Eastbound and Westbound         From:         M         Time         To:         To:           From         M         M         Time         To:         To:         Stat:         18         Juli         09:00         -         Stat:         18         Juli         17:00           Mon:         20         Jul         70:00         M         Time:         1         10:00         -         Th: 24         Juli         17:00           Time:         23         Jul:         90:00         -         Stat:         16         Juli         17:00           Time:         24         Juli:<	LICENSEE		ONSITE	CONT	ACT							
Ref No:         Date Harmour           Name:         Date Harmour           Phone:         0408969983           TRAFFIC MANAGEMENT         LICENCE DURATION           Flow Management:         Stop / Stow Control           Glosure Lane(s):         Shoulder           Direction(s):         Eastbound and Westbound           Tree in the stop of the stop	Organisation:	Wambo Coal Pty Ltd	Name:		Jef	f Hanlo	on (Open	Cut	Mine Ma	anager	)	
Name:         Date Harmour           Phone:         Od08969988           TRAFFIC MANAGEMENT         LICENCE DURATION           Flow Management:         Stop / Slow Control         To:         01-Apr-2020           Closure Type:         All lares both directions         To:         30-Sep-2020           Closure Type:         All anes both directions         To:         30-Sep-2020           Closure Lane(§):         Shoulder         Shoulder         To:         To:           Direction(§):         Eastbound and Westbound         From Shit         To:         Stat         18         Jul 17:00           Mare 21         Jul 09:00         -         Stat         18         Jul 17:00         Thue 21         Jul 09:00         -         Net 22         Jul 17:00           Tue 21         Jul 09:00         -         Stat         22         Jul 17:00         Thue 23         Jul 09:00         -         Stat         18         Jul 17:00           Tue 24         Jul 09:00         -         Stat         25         Jul 09:00         -         Thue 23         Jul 17:00           True 24         Jul 09:00         -         Stat         25         Jul 09:00         -         Thue 23         Jul 17:00	Ref No:		Phone:		04	176476	671					
Phone:         0408989988           TRAFFIC MANAGEMENT         LICENCE DURATION           From Management: Stop / Slow Control         From:         01-Apr-2020           Closure Type:         All lanes both directions         To:         30-Sep-2020           Closure Lang(s):         Shoulder         Shoulder           Direction(s):         Eastbound and Westbound         From Shit         To:         To:           Satt 18         Jul 09:00         -         Min         20         Jul 17:00           Mon 20         Jul 09:00         -         Min         17:00         Min         True         21         Jul 17:00           Wed 22         Jul 09:00         -         True         21         Jul 17:00         Wed 22         Jul 17:00           Wed 23         Jul 09:00         -         True 21         Jul 109:00         -         Fri         24         Jul 09:00         -         True 23         Jul 17:00           Satt 25         Jul 109:00         -         Fri<24	Name:	Dale Harmour										
TRAFFIC MANAGEMENT Flow Management: Stop / Slow Control Closure Lane(s): Direction(s):         LICENCE DURATION From: Shoulder Direction(s):         From: Shoulder Eastbound and Westbound         01-Apr-2020 To:           APPROVED DATES & TIMES From D         M Time         -         To Shift           From 2         Jul 09:00         -         Mon 20         Jul 17:00           Mon 20         Jul 09:00         -         The 21         Jul 17:00           Thu 23         Jul 09:00         -         Thu 23         Jul 17:00           Thu 23         Jul 09:00         -         Thu 23         Jul 17:00           Sat 18         Jul 09:00         -         Thu 23         Jul 17:00           Thu 23         Jul 17:00         Sat 25         Jul 17:00           Sat 25         Jul 09:00         -         Thu 30         Jul 17:00           Sat 25         Jul 17:00         Sat 25         Jul 17:00           Sat 24         Jul 09:00         -         Thu 30         Jul 17:00           Sat 10         Aug 09:00         - <td>Phone:</td> <td>0408969988</td> <td></td>	Phone:	0408969988										
Flow Management:         Stop / Slow Control         From:         01-Apr-2020           Closure Type:         All lanes both directions         30-Sep-2020           Closure Lane(s):         Shoulder           Direction(s):         Eastbound and Westbound           Keyter         From:         N           Main and Westbound         From:         Should and Westbound           Keyter         Eastbound and Westbound         From:         N           Main and Westbound         N         Time         -         To           Stat         18         Jul 09:00         -         Sat         18         Jul 09:00         -         Mo         Jul 17:00           Wed         22         Jul 09:00         -         Tue         21         Jul 17:00           Wed         22         Jul 09:00         -         Tue         23         Jul 17:00           Thu         23         Jul 09:00         -         Thu         23         Jul 17:00           Thu         23         Jul 09:00         -         Thu         23         Jul 17:00           Thu         23         Jul 17:00         Sat         25         Jul 09:00         -         Tue         23	TRAFFIC MANA	GEMENT	LICENC	E DUR		N						
Closure Type:         All lanes both directions         To:         30-Sep-2020           Closure Lane(s):         Shoulder         Shoulder           Direction(s):         Eastbound and Westbound         From Shit         To:         To:           From Shit         Toe         0         M         Time         -         To:         Shit           Sat         18         Jul         09:00         -         Sat         18         Jul         17:00           Mon         20         Jul         09:00         -         Sat         18         Jul         17:00           Tue         21         Jul         09:00         -         Wed         22         Jul         17:00           Tue         23         Jul         09:00         -         Tue         23         Jul         09:00         -         Sat         17:00           Tue         23         Jul         09:00         -         Tue         23         Jul         09:00         -         Sat         25         Jul         17:00           Sat         24         Jul         17:00         Sat         09:00         -         Tue         28         Jul         17:00 <td>Flow Management:</td> <td>Stop / Slow Control</td> <td>From:</td> <td></td> <td>01-</td> <td>Apr-20</td> <td>20</td> <td></td> <td></td> <td></td> <td></td> <td></td>	Flow Management:	Stop / Slow Control	From:		01-	Apr-20	20					
Closure Lane(s):         Shoulder           Direction(s):         Eastbound and Westbound           From Direction(s):         From Shift         To Shift           From Direction(s):         Jul 09:00         -         To Shift           Sat 18         Jul 09:00         -         Mon 20         Jul 09:00         -         Tou 20         Jul 17:00           Mon 20         Jul 09:00         -         Thu 23         Jul 09:00         -         Thu 23         Jul 17:00           Thu 23         Jul 09:00         -         Thu 23         Jul 17:00         Thu 23         Jul 17:00           Thu 23         Jul 09:00         -         Fri 24         Jul 17:00         Thu 23         Jul 17:00           Thu 23         Jul 09:00         -         Fri 24         Jul 17:00         Thu 23         Jul 17:00           Thu 23         Jul 09:00         -         Fri 24         Jul 17:00         Trice 28         Jul 09:00         -         Mon 27         Jul 17:00           True 28         Jul 09:00         -         Thu 23         Jul 17:00         Thu 30         Jul 09:00         -         Thu 23         Jul 17:00           True 28         Jul 09:00         -         Thu 30         Jul	Closure Type:	All lanes both directions	To:		30-	Sep-20	020					
Ditection(s):         Eastbound and Westbound           Prom Slut         row Slu	Closure Lane(s):	Shoulder										
APPR-VED JUES & TURES         To         D         M         Time         -         To         D         MI         Jui         17:00         Time         21         Jui         17:00         Time         23         Jui         17:00         Satt         25         Jui         09:00         -         Satt         25         Jui         17:00         Satt         25         Jui         17:00         Satt         25         Jui         17:00         Satt         25         Jui         17:00         Satt         17:00         Satt         13         Jui         17:00         Satt         14 <t< th=""><th>Direction(s):</th><th>Eastbound and Westbound</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></t<>	Direction(s):	Eastbound and Westbound										
FindDKTowDDD <td></td> <td></td> <td></td> <td>APPR</td> <td colspan="6">ROVED DATES &amp; TIMES</td> <td></td>				APPR	ROVED DATES & TIMES							
FromDMTimeToDMTimeSat18Jul9:00Sat18Jul17:00Mon21Jul09:00Tue21Jul09:00Tue22Jul17:00Wed22Jul09:00Tue23Jul09:00Tue23Jul17:00Wed22Jul09:00Tue23Jul09:00Sat25Jul17:00Fri23Jul09:00Sat25Jul09:00Sat25Jul17:00Mon27Jul09:00Tue28Jul09:00Tue28Jul17:00Wed28Jul09:00Tue28Jul17:00<					From	n Shift				То	Shift	
Sat       18       Jul       09:00       -       Sat       18       Jul       17:00         Mon       20       Jul       09:00       -       Tue       21       Jul       09:00       -       Tue       21       Jul       09:00       -       Tue       21       Jul       09:00       -       Tue       22       Jul       17:00         Wed       22       Jul       09:00       -       Tue       23       Jul       17:00         Thu       23       Jul       09:00       -       Fri       24       Jul       09:00       -       Fri       24       Jul       17:00         Sat       25       Jul       09:00       -       Sat       25       Jul       09:00       -       Tue       28       Jul       17:00         Tue       28       Jul       09:00       -       Tue       28       Jul       17:00         Tue       28       Jul       09:00       -       Tue       28       Jul       17:00         Tue       29       Jul       17:00       Tue       29       Jul       17:00         Sat       01       Aug </td <td></td> <td></td> <td></td> <td>From</td> <td>D</td> <td>М</td> <td>Time</td> <td>-</td> <td>То</td> <td>D</td> <td>М</td> <td>Time</td>				From	D	М	Time	-	То	D	М	Time
Mon       20       Jul       90:00       -       Mon       20       Jul       17:00         Tue       21       Jul       90:00       -       Tue       21       Jul       17:00         Wed       22       Jul       90:00       -       Fin       24       Jul       90:00       -       Kon       27       Jul       90:00       -       Kon       27       Jul       90:00       -       Tue       28       Jul       17:00         Tue       28       Jul       90:00       -       Tue       28       Jul       17:00         Tue       28       Jul       90:00       -       Tue       28       Jul       17:00         Tuu       30       Jul       90:00       -       Tue       30       Jul       90:00       -       Kon       30       Jul       17:00         Sat       01       Aug       90:00       -       Kon       00:0				Sat	18	Jul	09:00	-	Sat	18	Jul	17:00
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Wed       22       Jul       09:00       -       Wed       22       Jul       17:00         Thu       23       Jul       09:00       -       Fri       24       Jul       09:00       -       Fri       24       Jul       17:00         Sat       25       Jul       09:00       -       Fri       24       Jul       17:00         Mon       27       Jul       09:00       -       Sat       25       Jul       17:00         Mon       27       Jul       09:00       -       Tue       28       Jul       17:00         Tue       28       Jul       09:00       -       Tue       28       Jul       17:00         Tue       28       Jul       09:00       -       Tue       28       Jul       17:00         Thu       30       Jul       09:00       -       Fri       31       Jul       17:00         Sat       01       Aug       09:00       -       Fri       31       Jul       17:00         Mon       03       Aug       09:00       -       Tue       04       Aug       17:00         Mon       03				Tue	21	Jul	09:00	-	Tue	21	Jul	17:00
Thu       23       Jul       09:00       -       Thu       23       Jul       17:00         Fri       24       Jul       09:00       -       Fri       24       Jul       17:00         Sat       25       Jul       09:00       -       Kat       25       Jul       17:00         Mon       27       Jul       09:00       -       Tue       28       Jul       17:00         Tue       28       Jul       09:00       -       Tue       28       Jul       17:00         Wed       29       Jul       09:00       -       Tue       28       Jul       17:00         Thu       30       Jul       09:00       -       Thu       30       Jul       17:00         Fri       31       Jul       09:00       -       Fri       31       Jul       17:00         Sat       01       Aug       09:00       -       Kat       Jul       17:00         Gat       01       Aug       09:00       -       Tue       04       Aug       17:00         Tue       04       Aug       09:00       -       Tru       06       Au				Wed	22	Jul	09:00	-	Wed	22	Jul	17:00
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Sat       25       Jul       09:00       -       Sat       25       Jul       17:00         Mon       27       Jul       09:00       -       Mon       27       Jul       17:00         Tue       28       Jul       09:00       -       Tue       30       Jul       17:00         Tuu       30       Jul       09:00       -       Fri       31       Jul       17:00         Sat       01       Aug       09:00       -       Sat       01       Aug       17:00         Mon       03       Aug       09:00       -       Tue       04       Aug       17:00         Tue       04       Aug       09:00       -       True       04       Aug       17:00         Sat       08				Fri	24	Jul	09:00	-	Fri	24	Jul	17:00
Mon       27       Jul       09:00       -       Mon       27       Jul       17:00         Tue       28       Jul       09:00       -       Tue       28       Jul       17:00         Wed       29       Jul       09:00       -       Tue       28       Jul       17:00         Thu       30       Jul       09:00       -       Thu       30       Jul       17:00         Fri       31       Jul       09:00       -       Thu       30       Jul       17:00         Fri       31       Jul       09:00       -       Thu       30       Jul       17:00         Sat       01       Aug       09:00       -       Sat       01       Aug       17:00         Mon       03       Aug       09:00       -       Tue       04       Aug       09:00       -       Tue       04       Aug       17:00         Tue       04       Aug       09:00       -       Tue       04       Aug       17:00         Thu       06       Aug       09:00       -       Fri       07       Aug       09:00       -       Tue       14 </td <td></td> <td></td> <td></td> <td>Sat</td> <td>25</td> <td>Jul</td> <td>09:00</td> <td>-</td> <td>Sat</td> <td>25</td> <td>Jul</td> <td>17:00</td>				Sat	25	Jul	09:00	-	Sat	25	Jul	17:00
Tue       28       Jul       09:00       -       Tue       28       Jul       17:00         Wed       29       Jul       09:00       -       Thu       30       Jul       17:00         Thu       30       Jul       09:00       -       Thu       30       Jul       17:00         Fri       31       Jul       09:00       -       Fri       31       Jul       17:00         Sat       01       Aug       09:00       -       Sat       01       Aug       17:00         Mon       03       Aug       09:00       -       Mon       03       Aug       17:00         Mon       03       Aug       09:00       -       Tue       04       Aug       17:00         Thu       06       Aug       09:00       -       Tue       04       Aug       17:00         Thu       06       Aug       09:00       -       Fri       07       Aug       17:00         Sat       08       Aug       09:00       -       Fri       07       Aug       17:00         Mon       10       Aug       09:00       -       Tue       11				Mon	27	Jul	09:00	-	Mon	27	Jul	17:00
Wed       29       Jul       09:00       -       Wed       29       Jul       17:00         Thu       30       Jul       09:00       -       Thu       30       Jul       17:00         Fri       31       Jul       09:00       -       Fri       31       Jul       17:00         Sat       01       Aug       09:00       -       Sat       01       Aug       17:00         Mon       03       Aug       09:00       -       Sat       01       Aug       17:00         Mon       03       Aug       09:00       -       Mon       03       Aug       17:00         Tue       04       Aug       09:00       -       Tue       04       Aug       17:00         Wed       05       Aug       09:00       -       Tue       04       Aug       17:00         Thu       06       Aug       09:00       -       Thu       06       Aug       17:00         Fri       07       Aug       09:00       -       Fri       07       Aug       17:00         Sat       08       Aug       09:00       -       Tue       11				Tue	28	Jul	09:00	-	Tue	28	Jul	17:00
Thu       30       Jul       09:00       -       Thu       30       Jul       17:00         Fri       31       Jul       09:00       -       Fri       31       Jul       17:00         Sat       01       Aug       09:00       -       Sat       01       Aug       17:00         Mon       03       Aug       09:00       -       Sat       01       Aug       17:00         Tue       04       Aug       09:00       -       Mon       03       Aug       17:00         Wed       05       Aug       09:00       -       Tue       04       Aug       17:00         Wed       05       Aug       09:00       -       Tue       04       Aug       17:00         Thu       06       Aug       09:00       -       Thu       06       Aug       17:00         Sat       08       Aug       09:00       -       Fri       07       Aug       17:00         Mon       10       Aug       09:00       -       Sat       08       Aug       17:00         Tue       11       Aug       09:00       -       Tue       11				Wed	29	Jul	09:00	-	Wed	29	Jul	17:00
Fri       31       Jul       09:00       -       Fri       31       Jul       17:00         Sat       01       Aug       09:00       -       Sat       01       Aug       17:00         Mon       03       Aug       09:00       -       Mon       03       Aug       17:00         Tue       04       Aug       09:00       -       Tue       04       Aug       17:00         Wed       05       Aug       09:00       -       Tue       04       Aug       17:00         Wed       05       Aug       09:00       -       Tue       04       Aug       17:00         Thu       06       Aug       09:00       -       Tue       04       Aug       17:00         Thu       06       Aug       09:00       -       Thu       06       Aug       17:00         Sat       08       Aug       09:00       -       Fri       07       Aug       07:00         Sat       08       Aug       09:00       -       Tue       11       Aug       17:00         Wed       12       Aug       09:00       -       Tue       11				Thu	30	Jul	09:00	-	Thu	30	Jul	17:00
Sat       01       Aug       09:00       -       Sat       01       Aug       17:00         Mon       03       Aug       09:00       -       Mon       03       Aug       17:00         Tue       04       Aug       09:00       -       Tue       04       Aug       17:00         Wed       05       Aug       09:00       -       Tue       04       Aug       17:00         Thu       06       Aug       09:00       -       Thu       06       Aug       17:00         Fri       07       Aug       09:00       -       Thu       06       Aug       17:00         Sat       08       Aug       09:00       -       Fri       07       Aug       17:00         Sat       08       Aug       09:00       -       Sat       08       Aug       17:00         Mon       10       Aug       09:00       -       Tue       11       Aug       09:00       -       Tue       11       Aug       17:00         Tue       11       Aug       09:00       -       Tue       11       Aug       17:00         Thu       13				Fri	31	Jul	09:00	-	Fri	31	Jul	17:00
Min       03       Aug       09:00       -       Min       03       Aug       17:00         Tue       04       Aug       09:00       -       Tue       04       Aug       17:00         Wed       05       Aug       09:00       -       Tue       04       Aug       17:00         Wed       05       Aug       09:00       -       Wed       05       Aug       17:00         Thu       06       Aug       09:00       -       Thu       06       Aug       17:00         Fri       07       Aug       09:00       -       Thu       06       Aug       17:00         Sat       08       Aug       09:00       -       Fri       07       Aug       17:00         Mon       10       Aug       09:00       -       Fri       07       Aug       17:00         Mon       10       Aug       09:00       -       Tue       11       Aug       17:00         Wed       12       Aug       09:00       -       Thu       13       Aug       17:00         Fri       14       Aug       09:00       -       Thu       13				Sat	01	Aug	09:00	-	Sat	01	Aug	17:00
Tue       04       Aug       09:00       -       Tue       04       Aug       17:00         Wed       05       Aug       09:00       -       Wed       05       Aug       17:00         Thu       06       Aug       09:00       -       Thu       06       Aug       17:00         Fri       07       Aug       09:00       -       Fri       07       Aug       17:00         Sat       08       Aug       09:00       -       Fri       07       Aug       17:00         Mon       10       Aug       09:00       -       Sat       08       Aug       17:00         Mon       10       Aug       09:00       -       Sat       08       Aug       17:00         Mon       10       Aug       09:00       -       Mon       10       Aug       17:00         Tue       11       Aug       09:00       -       Tue       11       Aug       17:00         Wed       12       Aug       09:00       -       Tue       13       Aug       17:00         Fri       14       Aug       09:00       -       Fri       14				Nion	03	Aug	09:00	-	Nion	03	Aug	17:00
Wed       05       Aug       09.00       -       Wed       05       Aug       17.00         Thu       06       Aug       09:00       -       Thu       06       Aug       17:00         Fri       07       Aug       09:00       -       Fri       07       Aug       17:00         Sat       08       Aug       09:00       -       Fri       07       Aug       17:00         Sat       08       Aug       09:00       -       Sat       08       Aug       17:00         Mon       10       Aug       09:00       -       Sat       08       Aug       17:00         Tue       11       Aug       09:00       -       Mon       10       Aug       17:00         Tue       11       Aug       09:00       -       Tue       11       Aug       17:00         Wed       12       Aug       09:00       -       Tue       11       Aug       17:00         Fri       14       Aug       09:00       -       Thu       13       Aug       17:00         Sat       15       Aug       09:00       -       Sat       15				Tue	04	Aug	09:00	-	Tue	04	Aug	17:00
Fri       06       Aug       09:00       -       Fri       07       Aug       17:00         Fri       07       Aug       09:00       -       Fri       07       Aug       17:00         Sat       08       Aug       09:00       -       Sat       08       Aug       17:00         Mon       10       Aug       09:00       -       Sat       08       Aug       17:00         Mon       10       Aug       09:00       -       Mon       10       Aug       17:00         Tue       11       Aug       09:00       -       Mon       10       Aug       17:00         Wed       12       Aug       09:00       -       Tue       11       Aug       17:00         Thu       13       Aug       09:00       -       Tue       11       Aug       17:00         Thu       13       Aug       09:00       -       Thu       13       Aug       17:00         Fri       14       Aug       09:00       -       Fri       14       Aug       17:00         Sat       15       Aug       09:00       -       Sat       15				Thu	05	Aug	09.00	-	Thu	05	Aug	17:00
Fin       67       Aug       09:00       -       Fin       67       Aug       17:00         Sat       08       Aug       09:00       -       Sat       08       Aug       17:00         Mon       10       Aug       09:00       -       Mon       10       Aug       17:00         Tue       11       Aug       09:00       -       Tue       11       Aug       17:00         Wed       12       Aug       09:00       -       Tue       11       Aug       17:00         Thu       13       Aug       09:00       -       Tue       11       Aug       17:00         Thu       13       Aug       09:00       -       Tue       11       Aug       17:00         Thu       13       Aug       09:00       -       Thu       13       Aug       17:00         Fri       14       Aug       09:00       -       Fri       14       Aug       17:00         Sat       15       Aug       09:00       -       Sat       15       Aug       17:00         Mon       17       Aug       09:00       -       Mon       17				Fri	00	Aug	09.00	-	r nu Eri	00	Aug	17.00
Mon       10       Aug       09:00       -       Mon       10       Aug       17:00         Mon       10       Aug       09:00       -       Tue       11       Aug       17:00         Tue       11       Aug       09:00       -       Tue       11       Aug       17:00         Wed       12       Aug       09:00       -       Tue       11       Aug       17:00         Thu       13       Aug       09:00       -       Tue       12       Aug       17:00         Fri       14       Aug       09:00       -       Thu       13       Aug       17:00         Sat       15       Aug       09:00       -       Fri       14       Aug       17:00         Sat       15       Aug       09:00       -       Fri       14       Aug       17:00         Mon       17       Aug       09:00       -       Sat       15       Aug       17:00         Mon       17       Aug       09:00       -       Mon       17       Aug       17:00         Tue       18       Aug       09:00       -       Tue       18				Sat	07	Aug	09.00	-	Sat	07	Aug	17.00
Tue       11       Aug       09:00       -       Tue       11       Aug       17:00         Tue       11       Aug       09:00       -       Tue       11       Aug       17:00         Wed       12       Aug       09:00       -       Wed       12       Aug       17:00         Thu       13       Aug       09:00       -       Thu       13       Aug       17:00         Fri       14       Aug       09:00       -       Fri       14       Aug       17:00         Sat       15       Aug       09:00       -       Sat       15       Aug       17:00         Mon       17       Aug       09:00       -       Sat       15       Aug       17:00         Tue       18       Aug       09:00       -       Sat       15       Aug       17:00         Tue       18       Aug       09:00       -       Mon       17       Aug       17:00         Tue       18       Aug       09:00       -       Tue       18       Aug       17:00				Mon	10	Aug	09.00	-	Mon	10	Aug	17.00
Wed       12       Aug       09:00       -       Wed       12       Aug       17:00         Wed       12       Aug       09:00       -       Thu       13       Aug       17:00         Thu       13       Aug       09:00       -       Thu       13       Aug       17:00         Fri       14       Aug       09:00       -       Fri       14       Aug       17:00         Sat       15       Aug       09:00       -       Sat       15       Aug       17:00         Mon       17       Aug       09:00       -       Mon       17       Aug       17:00         Tue       18       Aug       09:00       -       Tue       18       Aug       17:00					11	Aur	09.00	-	Tue	11	Aug	17.00
Thu       13       Aug       09:00       -       Thu       13       Aug       17:00         Thu       13       Aug       09:00       -       Thu       13       Aug       17:00         Fri       14       Aug       09:00       -       Fri       14       Aug       17:00         Sat       15       Aug       09:00       -       Sat       15       Aug       17:00         Mon       17       Aug       09:00       -       Mon       17       Aug       17:00         Tue       18       Aug       09:00       -       Mon       17       Aug       17:00				Wed	12	Aug	09:00	-	Wed	12	Aug	17:00
Fri       14       Aug       09:00       -       Fri       14       Aug       17:00         Sat       15       Aug       09:00       -       Sat       15       Aug       17:00         Mon       17       Aug       09:00       -       Sat       15       Aug       17:00         Tue       18       Aug       09:00       -       Mon       17       Aug       17:00				Thu	13	Aua	09:00	-	Thu	13	Aua	17:00
Sat       15       Aug       09:00       -       Sat       15       Aug       17:00         Mon       17       Aug       09:00       -       Mon       17       Aug       09:00       -       Mon       17       Aug       17:00         Tue       18       Aug       09:00       -       Tue       18       Aug       17:00				Fri	14	Aua	09:00	-	Fri	14	Aua	17:00
Mon         17         Aug         09:00         -         Mon         17         Aug         17:00           Tue         18         Aug         09:00         -         Tue         18         Aug         17:00				Sat	15	Aua	09:00	-	Sat	15	Aua	17:00
Tue 18 Aug 09:00 - Tue 18 Aug 17:00				Mon	17	Aua	09:00	-	Mon	17	Aua	17:00
				Tue	18	Aug	09:00	-	Tue	18	Aug	17:00

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### LICENCE NO : 1365906

#### **ROADS & MARITIME SERVICES (RMS)**

#### Phone: 1300 656 371 Monday To Friday 8.30 AM - 4.30 PM

To activate and deactivate your approved work shift(s) on your Road Occupancy Licence, please visit: myrol.transport.nsw.gov.au. This licence is for the occupation of the road space only. If you are unable to access myrol.transport.nsw.gov.au, please call TMC on 1800 679 782. For further assistance, please refer to the proponent's user manual here: myrol.transport.nsw.gov.au/help.pdf

NON DEVELOPM	MENT - NOT KNOWN	LOCAT	ION								
Project:	Not Applicable	Subject Road:		Golden Highway							
This Activity :	Temporary Road Closure for Blasting	From:		Co	mleroi	Road, W	/ARK	WORTH	l		
		To:		Pir		e road, V	/arkw	orth NS	W		
		Council:		51	NGLET	ON					
LICENSEE		ONSITE		ACT							
Organisation:	Wambo Coal Pty Ltd	Name:		Jet	f Hanlo	on (Oper	Cut	Mine Ma	anager	)	
Ref No:		Phone:		04	176476	571					
Name:	Dale Harmour										
Phone:	0408969988										
TRAFFIC MANAG	GEMENT	LICENC			N						
Flow Management: Stop / Slow Control From:				01	-Apr-20	20					
Closure Type:	All lanes both directions	To:		30	Sep-20	020					
Closure Lane(s):	Shoulder										
Direction(s):	Eastbound and Westbound										
			APPR	ROVED DATES & TIMES							
				Fron	n Shift	200.		0	То	Shift	
			From	D	м	Time	-	То	D	М	Time
			Mon	24	Aug	09:00	-	Mon	24	Aug	17:00
			Tue	25	Aug	09:00	-	Tue	25	Aug	17:00
			Wed	26	Aug	09:00	-	Wed	26	Aug	17:00
			Thu	27	Aug	09:00	-	Thu	27	Aug	17:00
			Fri	28	Aug	09:00	-	Fri	28	Aug	17:00
			Sat	29	Aug	09:00	-	Sat	29	Aug	17:00
			Mon	31	Aug	09:00	-	Mon	31	Aug	17:00
			Tue	01	Sep	09:00	-	Tue	01	Sep	17:00
			Wed	02	Sep	09:00	-	Wed	02	Sep	17:00
			Thu	03	Sep	09:00	-	Thu	03	Sep	17:00
			Fri	04	Sep	09:00	-	Fri	04	Sep	17:00
			Sat	05	Sep	09:00	-	Sat	05	Sep	17:00
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			Wed	09	Sep	09:00	-	Wed	09	Sep	17:00
			Thu	10	Sep	09:00	-	Thu	10	Sep	17:00
			Fri	11	Sep	09:00	-	Fri	11	Sep	17:00
			Sat	12	Sep	09:00	-	Sat	12	Sep	17:00
			Mon	14	Sep	09:00	-	Mon	14	Sep	17:00
			Tue	15	Sep	09:00	-	Tue	15	Sep	17:00
			Wed	16	Sep	09:00	-	Wed	16	Sep	17:00
			Thu	17	Sep	09:00	-	Thu	17	Sep	17:00
			Fri	18	Sep	09:00	-	Fri	18	Sep	17:00
			Sat	19	Sep	09:00	-	Sat	19	Sep	17:00
			Mon	21	Sep	09:00	-	Mon 	21	Sep	17:00
			Tue	22	Sep	09:00	-	Tue	22	Sep	17:00
			Wed	23	Sep	09:00	-	Wed	23	Sep	17:00

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### LICENCE NO : 1365906

#### **ROADS & MARITIME SERVICES (RMS)**

#### Phone: 1300 656 371 Monday To Friday 8.30 AM - 4.30 PM

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NON DEVELOPM	IENT - NOT KNOWN	LOCATION		
Project:	Not Applicable	Subject Road:	Golden Highway	
This Activity :	Temporary Road Closure for Blasting	From:	Comleroi Road, WARKWORTH	
		To:	Pinegrove road, Warkworth NSW	
		Council:	SINGLETON	
LICENSEE		ONSITE CON	ГАСТ	
Organisation:	Wambo Coal Pty Ltd	Name:	Jeff Hanlon (Open Cut Mine Manager)	
Ref No:		Phone:	0417647671	
Name:	Dale Harmour			
Phone:	0408969988			
TRAFFIC MANAG	GEMENT	LICENCE DUF	RATION	
Flow Management:	Stop / Slow Control	From:	01-Apr-2020	
Closure Type:	All lanes both directions	To:	30-Sep-2020	
Closure Lane(s):	Shoulder			
Direction(s):	Eastbound and Westbound			
		APPI	ROVED DATES & TIMES	
			From Shift To S	Shift

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Sep 17:00

Sep 17:00

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# SPEED ZONE AUTHORISATION



### LIC/SZA NO: 1365906/001

**ROADS & MARITIME SERVICES (RMS)** 

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LOCATION		TRAFFIC MANAGEMENT					
Subject Road:	Golden Highway	Distance(m):	1500				
From:	Comleroi Road, Warkworth NSW	Direction:	Eastbound and Westbound				
То:	Pinegrove road, Warkworth NSW						
Council:							
LICENSEE		ONSITE CON	ГАСТ				
Organisation:	Wambo Coal Pty Ltd	Name:	Jeff Hanlon (Open Cut Mine Manager)				
Ref No:		Phone:	0417647671				

### APPROVED DATES & TIMES

Name: Phone: Dale Harmour

0408969988

From Shift					To Shift					
From	D	М	Time	-	То	D	М	Time		
Wed	01	Apr	09:00	-	Wed	01	Apr	17:00		
Thu	02	Apr	09:00	-	Thu	02	Apr	17:00		
Fri	03	Apr	09:00	-	Fri	03	Apr	17:00		
Sat	04	Apr	09:00	-	Sat	04	Apr	17:00		
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Thu	16	Apr	09:00	-	Thu	16	Apr	17:00		
Fri	17	Apr	09:00	-	Fri	17	Apr	17:00		
Sat	18	Apr	09:00	-	Sat	18	Apr	17:00		
Mon	20	Apr	09:00	-	Mon	20	Apr	17:00		
Tue	21	Apr	09:00	-	Tue	21	Apr	17:00		
Wed	22	Apr	09:00	-	Wed	22	Apr	17:00		
Thu	23	Apr	09:00	-	Thu	23	Apr	17:00		
Fri	24	Apr	09:00	-	Fri	24	Apr	17:00		
Sat	25	Apr	09:00	-	Sat	25	Apr	17:00		
Mon	27	Apr	09:00	-	Mon	27	Apr	17:00		
Tue	28	Apr	09:00	-	Tue	28	Apr	17:00		
Wed	29	Apr	09:00	-	Wed	29	Apr	17:00		
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Organisation:	Wambo Coal Pty Ltd	Name:	Jeff Hanlon (Open Cut Mine Manager)				
Ref No:		Phone:	0417647671				

Organisation:Wambo Coal Pty LtdName:Ref No:Phone:Phone:Name:Dale HarmourPhone:0408969988

### APPROVED DATES & TIMES

From Shift					To Shift					
From	D	М	Time	-	То	D	М	Time		
Sat	02	May	09:00	-	Sat	02	May	17:00		
Mon	04	May	09:00	-	Mon	04	May	17:00		
Tue	05	May	09:00	-	Tue	05	May	17:00		
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Thu	28	May	09:00	-	Thu	28	May	17:00		
Fri	29	May	09:00	-	Fri	29	May	17:00		
Sat	30	May	09:00	-	Sat	30	May	17:00		
Mon	01	Jun	09:00	-	Mon	01	Jun	17:00		
Tue	02	Jun	09:00	-	Tue	02	Jun	17:00		

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APPRO	VED	DATES	&	TIMES
/		DIVIEO	~	

Name:

Phone:

Dale Harmour

0408969988

From Shift					To Shift			
From	D	м	Time	-	То	D	м	Time
Sat	04	Jul	09:00	-	Sat	04	Jul	17:00
Mon	06	Jul	09:00	-	Mon	06	Jul	17:00
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## APPROVED DATES & TIMES

Name: Phone: Dale Harmour

0408969988

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From	D	М	Time	-	То	D	М	Time
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Thu	06	Aug	09:00	-	Thu	06	Aug	17:00
Fri	07	Aug	09:00	-	Fri	07	Aug	17:00
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## **APPENDIX C** Traffic Control Plan





Indicative Permanent Road Sign for Temporary Road Closure

Size: 1200mm x 1200mm

# APPENDIX D

Road Closure Procedure Flowchart



# WCPL ROAD CLOSURE PROCEDURE FOR BLASTING WITHIN 500M OF THE GOLDEN HIGHWAY



APPENDIX E NOTIFICATION PROCEDURE FOR BLASTING WITHIN 500M OF PRIVATE PROPERTY



# WAMBO COAL BLASTING WITHIN 500M OF PRIVATE PROPERTY NOTIFICATION PROCEDURE

Document No. WA-ENV-PRO-507.4

November 2019



## **Document Control**

Document No.	WA-ENV-PRO-507.4
Title	Blasting Within 500m of Private Property Notification Procedure
General Description	Procedure to ensure the impacts and safety risks created when blasting is within 500m of property not owned by WCPL are appropriately managed.
Document Owner	Environment & Community Manager

#### Revisions

Rev No	Date	Description	Ву	Checked	Signature
1	November 2017	Original Draft	Harry Egan		
2	December 2017	Incorporating private landholder feedback and agreements	Harry Egan		
3	September 2019	Updating Figure 1 reflect 2019 blast exclusion zones	Kimberley Hines		
4	Nov 2019	Review and update to ensure consistent with revised Blast Management Plan (BMP) (Version 10) -	WCPL	Jeff Hanlon WCPL	



## 1.0 Purpose

Wambo Coal Pty. Ltd. (WCPL) is required by Condition B32 of Development Consent DA 305-7-2003 to not undertake blasting within 500 metres of private property unless a written agreement is in place with the landholder.

The purpose of this Blasting Within 500m of Private Property Notification Procedure (the Procedure) is to address requirements for blasting within 500 metres of private land. This Procedure has been approved by affected landholders and forms a component of the WCPL Blast Management Plan (BMP). Agreements and correspondence relating to this Procedure are included in **Attachments A** and **B**.

## 2.0 Scope

The Procedure relates to private land within the 500m exclusion zone for all blasting undertaken at WCPL. Landholders potentially within the exclusion zone consist of:

- Crown Land (NSW Department of Primary Industries Lands) (DPI Lands);
- Hunter Local Land Services (LLS);
- Hunter Valley Operations (HVO); and
- Glencore Pty Ltd (United Coal Mine).

Landholder parcels within potential blast exclusion zones for mining during 2019 are shown in **Figure 1**. Note that the Traffic Control Points (TCS) identified in **Figure 1** are indicative only; traffic control points are subject to wind conditions at the time of blasting.





Figure 1: Indicative Blasting Exclusion Zones to December 2020

Uncontrolled when printed



## 3.0 Procedure

The WCPL Drill and Blast Engineer will determine if the Procedure is required to be implemented during blast planning undertaken in compliance with the BMP.

Where private property is identified as falling within the 500m blast exclusion zone the following notification procedure will be implemented.

### 3.1 Local Land Services and DPI - Lands Notification

• Email LLS and DPI Lands contacts five days prior to the blast with the following text and information;

All,

Scheduled blast notification for Wambo Open Cut. Shot <BLAST ID> is scheduled to be fired in <PIT NAME> on <DATE AND TIME>.

If environmental or production reasons require the blast timing to be modified an update will be forwarded via this distribution list.

<FIGURE SHOWING AERIAL WITH BLAST FOOTPRINT, 300m/500m EXCLUSION ZONES AND DP/LOT NUMBERS>

• Phone the Long-Term Grazing Permit (LGP) holder of Hobdens Reserve and notify them of the blast. If the LGP holder is unable to be reached by phone a recorded message will be left. WCPL will not seek a positive response following notification of blasting.

## 3.2 HVO Only

- Email HVO contacts with text and information as per **Section 3.1**;
- Email confirmation within 12 hours of the blast occurring (where possible); and
- Phone confirmation that blast is proceeding within 12 hours of the blast occurring.

### 3.3 Glencore United

- Email Glencore United contacts with text and information as per **Section 3.1**; and
- Email confirmation within 12 hours of the blast occurring (where possible).

Key contacts (provided by the private landholders) to receive blast notifications are provided in **Table 1**. It is the responsibility of the landholder to notify WCPL of any changes to personnel required to be notified including changes to the LGP Holder.

If the blast is cancelled or time changed then all landholders will be notified at the earliest possible opportunity.



Table 1: Blast Notification Contact List					
Landholder	Lot and DP	Contact	Position	Phone	Email
Yancoal <u>/</u> HV O	179//823775 4//1085145 5//1085145 1//1085145	Ernie Martin	Senior Drill & Blast Engineer	0428 600 286	<u>ernest.martin@hvo.com.au</u>
Local Land Services	175//823775	Warrick Nairne and Matt Kennedy	Senior Field Assistant and Biosecurity Officer	0428721864 (WN) 0428686178 (MK)	warwick.nairne@lls.nsw.gov.au and matt.kennedy@lls.nsw.gov.au
LGP Holder	175//823775		LGP Holder		-
DPI - Lands	170//823775 172//823775 173//823775	David Baber	Projects Manager, Regional Projects West	02 6883 3326	<u>david.baber@crownland.nsw.gov.a</u> <u>u</u>
Glencore United	2//617852	Gary Wills	Operations Manager	0429900814	UnitedBlastNotifications@glencore. com.au gary.wills@glencore.com.au

## 3.4 Site Access and Exclusion Zone Clearance

The following clearance procedure will be completed for affected land as identified in **Figure 1** and **Table 1**.

#### 3.4.1 Local Land Services and DPI - Lands

A WCPL sentry will undertake a clearance inspection of property owned by DPI - Lands and LLS to confirm no landholder representatives are present prior to the blast.

On confirmation that no personnel are within the cleared areas the WCPL sentry will remain at the property access to prevent entry until the Golden Highway is closed in compliance with WCPL's Road Closure Management Procedure (WA-ENV-PRO-507.3).

All access will be undertaken in accordance with the LLS P19/003 Reserve Use Application Permit and DPI – Lands Letter of Authority (Blasting Access Agreement) (**Attachment A**).

#### 3.4.2 HVO

The following procedure will be implemented to undertake clearance inspections of HVO property within the 500m exclusion zone of WCPL blasting:

• On the morning of the blast the WCPL Blast Coordinator will call the identified HVO contact and confirm blast time and sentry coordination;



- At least 30 minutes prior to the blast a WCPL sentry, in possession of a WCPL two way radio, will meet with a designated HVO representative at the Golden Highway heavy vehicle stop;
- The WCPL sentry and HVO representative will conduct a sentry sweep of the affected area. The HVO representative will provide confirmation to the WCPL sentry that the area is clear; and
- The WCPL sentry will communicate to the WCPL Blast Coordinator that the area is clear and will remain in position with the HVO representative until they are released from their duties by the WCPL Blast Coordinator.

Access to the affected properties is shown in Figure 2.





Uncontrolled when printed



## 4.0 Consultation and Approval

Consultation was undertaken with affected landholders DPI – Crown Lands, Local Land Services – Hunter, Yancoal (HVO) and Glencore United as required by DA 305-7-2003. Copies of the agreed access agreements and permits are included in **Attachment A** and relevant correspondence is included in **Attachment B**.

WCPL advised the NSW Department of Planning, Industry and Environment (DPIE) of the terms of the agreements on 13 December 2017.

## 5.0 Responsibilities

No	Task	Responsibility	Timing
1	<ul> <li>Ensure notification procedure is followed for;</li> <li>HVO</li> <li>DPI Lands</li> <li>Local Land Services - Hunter</li> <li>LGP Holder</li> <li>Glencore United</li> <li>Other (if required)</li> </ul>	Drill and Blast Superintendent	<ol> <li>5 days prior to blasting event and</li> <li>12 hours prior to blasting event</li> </ol>
2	Coordinate clearance of private land	Drill and Blast Superintendent	For each blast event
3	Identification of requirement to monitor vibration and overpressure at public and private infrastructure	Drill and Blast Superintendent	For each blast event
4	Consultation with private landholders and regulators	E&C Manager	Annually



**Attachment A - Access Agreements** 



Our Ref: 16/04049 Your Ref:

5 December 2019

Nicole Dobbins Senior Environment Advisor Wambo Coal Pty Ltd Peabody Australia PMB 1 Singleton NSW 2330

Dear Nicole

#### Blasting Access Permit

This Permit issued under Section 5.3 of the *Crown Land Management Act 2016* provides authority for subsidiaries, employees, contractors and consultants engaged by **Wambo Coal Pty Ltd** (hereafter "the Proponent") to enter the Crown land described below for activities as detailed in this cover letter and attachment:

• Crown Land identified as Lots 170, 172 & 173 DP823775.

The permitted activities include the following:

1. Access (specifically for the purposes of ensuring public safety and prevention of injury to the public during blasting activity in accordance with *Schedule 2, Condition B32 Development Consent 305-7-2003 Environmental Planning & Assessment Act 1979.* Access to the Crown land located within 500m of the blast site will be required by the Proponent to notify any members of the public, which may be located on the Crown land, of the pending blast.

The Permit is provided subject to the Proponent agreeing to the Schedule of Conditions described in Annexure A.

The Permit is not valid until Annexure A is signed and dated by the Proponent. Please return a signed copy of Annexure A by email to david.baber@crownland.nsw.gov.au.

The Permit will be valid for the period from 31 December 2019 to 31, December 2020.

If you have any further questions I can be contacted on 6883 3326.

Regards,

mill ches

David Baber Projects Manager, Regional Projects West Department of Industry – Lands (Mobile 0427 629 288)

> Department of Planning, Industry& Environment (Crown Lands) PO Box 2185 Dangar NSW 2309 Tel: 1300 886 235 www.crownland.nsw.gov.au | ABN 20 770 707 468

#### ANNEXURE A

#### SCHEDULE OF CONDITIONS

#### PERMIT FOR TEMPORARY OCCUPATION OF CROWN LAND FOR THE PURPOSE OF Access to Crown Land Lots 170, 172 & 173 DP823775 (hereafter "the Land") at Warkworth

Issued under Section 5.3 of the Crown Land Management Act 2016 specifically for the purposes of ensuring public safety and prevention of injury to the public during blasting activity in accordance with Schedule 2, Condition B32 Development Consent 305-7-2003 Environmental Planning & Assessment Act 1979. Access to the Land located within 500m of the blast site will be required by the Proponent to notify any members of the

public, which may be located on the Land, of the pending blast.

#### FOR THE PERIOD FROM 31 December 2019 to 31 December 2020

- 1. For the purposes of this clause the term Minister shall include Her Majesty the Queen, Her Heirs and Successors the State of New South Wales, the Minister and the agents, servants, employees and contractors of Her Majesty, Her Heirs and Successors, the State of New South Wales and the Minister.
  - a) The Proponent agrees that they will indemnify and keep indemnified the Minister from and against all actions suits claims and demands of whatsoever nature and all costs charges and expenses in respect of any accident or injury to any person or property which may arise out of the use of the subject Land for the purpose of Access as may be authorised under this Permit notwithstanding that the conditions of this Permit shall in all respects have been observed by the Proponent or that any such accident or injury shall arise from any act or thing which may be authorised or compelled to do hereunder.
  - b) The Proponent expressly agrees that the obligations under this clause shall continue after the expiration or other determination of this Permit in respect of any act, deed, matter or thing happening before such expiration or determination.
- 2. The Proponent shall obtain all necessary consents which are required by law to be issued by or obtained from any authority in connection with the access to the Land and shall comply with all conditions that are the subject of such Consents.
- 3. The Proponent holds appropriate insurances sufficient to ensure the Minister is suitably indemnified against any action, suit or claim that may result as a consequence of access to the Land by the Proponent and/or its contractors. All costs to be the responsibility of the Proponent and/or its contractors.
- 4. The Proponent is responsible for safety induction of all persons onto the Land. The Proponent or contractor is responsible at all times for ensuring safe systems of work and that the work site poses no occupational, health or safety risks to workers or the public. All persons engaged in any work relative to this Permit must be qualified, trained or appropriately experienced in the work involved and the safe operation of associated tools or machinery. Relevant advice should be obtained from NSW WorkCover Authority.

To activate this Authority please sign below and return this document (Annexure A) by email to david.baber@crownland.nsw.gov.au.

Signature of Proponent:

Peter Jaeger

Name of Proponent (Authorised Officer):

Date: 5/12/19

Department of Planning, Industry & Environment (Crown Lands) PO Box 2185 Dangar NSW 2309 Tel: 1300 886 235 www.crownland.nsw.gov.au | ABN 20 770 707 468



# P20/001 RESERVE USE PERMIT

Local Land Services Act 2013, Part 6, Section 77

Phone: 02 6548 2175 Email: admin.hunter@lls.nsw.gov.au

Hunter Region
181 Bettington St,
PO Box 9, Merriwa 2329

This Permit authorise	es: Peabody Energy Australia Pty Limited & Peabody Energy Australia PCI Pty Ltd
Name of Applicant:	Peter Jaeger (and Wambo representatives)
On behalf of Organisa	tion: WAMBO COAL PTY LTD
Address: Jerrys Pla	ins Rd, Warkworth via Singleton NSW 2330
Phone: 02 6570 220	06 Mobile: 0417 527 585 Fax:
Proposed Activity:	To enter Hobdens TSR, identified in the attached map, to ensure no persons are within the Blast Safety Exclusion Zone from the neighbouring mine land during periodical blasting activities. To cross the TSR on existing tracks to access exploration drillsites located on adjacent mine owned land. To conduct drilling and exploration activities within Authorisation 444
Date(s) of proposed a	ctivity: 1 January 2020 to 31 December 2020
Reserve No/Name:	Travelling Stock Reserve 52974 (TSR) and comprises of Lot 175 in DP823775, Hobdens Reserve
Location of Reserve:	Golden Highway, Warkworth
Fee (including GST):	\$550.00

**CONDITIONS (see attached)** \* The Standard Reserve Use Permit conditions issued by LLS, and \* The Special Conditions attached to this form

Apiarist Registration No: N/A

Insurance Details:

Insurance Company: Liberty Specialty Markets (Liberty)

Policy No:	BNCAS19431990 & Others	Amount of Cover:	\$20,000,000 Public Liability
			\$20,000,000 Products Liability

Commencement & Expiry Dates: 01/08/2019 to 01/08/2020

I hereby agree to abide by the relevant provisions of the Local Land Services Act 2013 and the fees and conditions relating to this permit.

Signature of Applicant: P. Jun	Date: 13 - 01 - 2020
Applicants Name: Peter Jaeger	Manager Environment & Community
Signature of Authorised Officer of Hunter LLS	1. Fater Date: 07.01.2020
Hunter LLS Representative's name:	Peter Fotheringham

#### **Special Conditions of Permit**

- Wambo Coal (the Permit holder) shall notify the Long Term Grazing Permit holder of Hobdens Reserve (the "LGP holder") of any planned blasting activities five Business Days prior to the blast occurring, nominating the date and approximate time of the proposed blasting activities. The method of correspondence will be a phone call to the phone number nominated by LLS for that purpose. The phone call to the LGP Holder forms the only notification correspondence. If the phone call is not answered Wambo Coal shall leave a voice message (if available to do so). If the phone call is not answered;
  - i. and a voice message is left by HV Operations, or
  - ii. no voice message is available to leave,

Wambo Coal will not chase or make further contact with the LGP holder for that blast. It will be LLS's responsibility to notify Wambo Coal of changes to TSR tenancy contact details.

- Wambo Coal shall notify LLS of a proposed blast, five business days prior to the blast occurring, nominating the date and approximate time of the proposed blasting activities. The only method of correspondence will be the Notification Email to the email addresses nominated by LLS for that purpose.
- 3. Wambo Coal shall notify Crown Lands of a proposed blast five Business Days prior to the blast is to occur nominating the date. The only method of correspondence will be the Notification Email to the email address nominated by Crown Lands for that purpose.
- 4. Actual times of blasting can be subject to change at short notice due to site conditions and operational reasons. If this occurs and the blast is re-scheduled for another day Wambo Coal will re-notify LLS, Crown Lands & The LGP holder (under conditions 1, 2 and 3 of these Special Conditions) that the blast is postponed.
- 5. Prior to the blast Wambo Coal will Access the Property to check if any Person or Persons are within the Safety Exclusion Zone.
- 6. Wambo Coal will Access the Property via the access gate on the Golden Highway frontage of the Property or any other access gate agreed between Wambo Coal and LLS.
- 7. If a person or persons is within a 500m radius of the blasting (the "*Safety Exclusion Zone*") they will be requested to move outside the Safety Exclusion Zone. If that person or persons refuse to move the blast shall be stopped until such time as the area is clear. LLS will be contacted for assistance if required to negotiate with the person or persons to move outside the blast radius.
- 8. The LGP holder is not required to move cattle out of the Safety Exclusion Zone.
- 9. Wambo Coal will ensure no person or persons are within the Safety Exclusion Zone during the blast event.
- 10. LLS may add or change any special condition of this Reserve Use Permit at any time and will advise the Permit Holder in writing. This will include changing the method of correspondence for notification to the LGP Holder and/or LLS of proposed blasting activities.

(271-2514/14886071v.1)



## RESERVE USE PERMIT CONDITIONS

#### Terms and Conditions for Reserve Use Permits (RUP)

- 1. The Permit holder may occupy the reserve/s herein described and shall not move to any other area upon Local Land Services Reserves without obtaining a new Permit.
- 2. An Authorised Officer of the Local Land Services may at any time require the Permit holder to move to any other reserve with no additional fee payable for the replacement reserve.
- Local Land Services accepts no responsibility for any damage or injury occasioned by or arising from the granting of this Permit to any person or stock, and the Permit holder hereby agrees to indemnify and keep indemnified Local Land Services for all such liability at all times.
- 4. The Permit holder shall produce this Permit to any Authorised Officer of Local Land Services or the N.S.W. Police upon demand.
- 5. This Permit is not transferable. Illegal occupation of reserves may be subject to prosecution.
- 6. If, for any reason this permit is no longer required during the term of the permit, the permit holder **MUST** advise Local Land Services in writing.
- 7. No building shall be erected upon the site for which this Permit is issued, and the holder shall not cut, remove or destroy any trees.
- 8. Unregistered poison for the destruction of ants, etc must not be placed on Local Land Services Reserves.
- 9. Travelling stock have "right of way" at all times.
- 10. The Permit Holder must provide a telephone number, residential address and postal address, where they can be contacted.
- 11. Signs advising permit holder's name and contact telephone number must be placed at each entrance of the reserve (apiary permit holders only).
- 12. All conditions of the Local Land Services Act 2013 and associated regulations, the Stock Diseases Act and associated regulations and the Drovers Code of Conduct must be adhered to.
- 13. Local Land Services may revoke this Permit if it is satisfied that any of the above conditions or restrictions has been contravened.
- 14. The permit holder must have public liability insurance for at least \$20,000,000 that covers the proposed activity described in the permit and such insurance shall be valid for the duration of the Permit. Details of the public liability insurance must be provided on the permit and a copy of the Permit Holders' public liability insurance must be produced on request of Hunter LLS at any time.

#### WARNINGS

Pesticides or Agricultural Chemicals used in the district could well find their way onto travelling stock reserves and roads. These are matters over which Local Land Services has no control. Any person using travelling stock reserves and roads must satisfy themselves as to the risk. A condition of the issue of this Permit is that no claim shall be made against Local Land Services, its directors or employees for any loss or injury resulting from pesticides, chemical or plant poisoning on any land on which stock or persons travel, use orgraze under this Permit.

Local Land Services is unable to guarantee the status of the TSR regarding BJD/OJD and medullated fibres. Permit holders are encouraged to take appropriate risk management measures. Local Land Services is unable to guarantee the status of the TSR regarding Endosulfan. Permit holders are encouraged to take appropriate risk management measures. Local Land Services will provide copies of all Endosulfan notifications it has received pertaining to the TSR's on the permitted area.

## **Dobbins**, Nicole

From: Sent:	Martin, Ernie <ernie.martin@coalandallied.com.au> Monday, 27 November 2017 2:46 PM</ernie.martin@coalandallied.com.au>
То:	Egan, Harry D.; David Baber; jamie.Maddocks@lls.nsw.gov.au
Cc:	brett.miners@lls.nsw.gov.au; Peart, Steven D; O'Brien, Brendan
Subject:	RE: Wambo Coal Private Property Blasting Notification Procedure

Harry,

This Draft agreement reflects the discussion that we had at Hunter Valley Operations on the 31<sup>st</sup> October 2017.

#### Regards

Ernie Martin | Senior Drill & Blast Engineer

Yancoal Australia LtdSITE:Hunter Valley Operations, 1011 Lemington Road, Ravensworth, NSW, 2330, AustraliaPOSTAL:1011 Lemington Road, Ravensworth, NSW, 2330, AustraliaPHONE:+61 2 700 286MOBILE:+61 428 600 286EMAIL:ernest.martin@coalandallied.com.auWEBSITE:www.yancoal.com.au



From: Egan, Harry D. [mailto:HEgan@peabodyenergy.com]
Sent: Monday, 13 November 2017 11:59 AM
To: David Baber; jamie.Maddocks@lls.nsw.gov.au; Martin, Ernie
Cc: brett.miners@lls.nsw.gov.au; Peart, Steven D
Subject: Wambo Coal Private Property Blasting Notification Procedure
Importance: High

Gents,

Wambo Coal Pty. Ltd. (WCPL) is required by *Schedule 4, Condition 19 Development Consent 305-7-2003* to not undertake blasting within 500 meters of private property unless a written agreement is in place with the landholder.

As previously discussed WCPL has scheduled approximately 12 shots for the 2018 within 500m of privately owned land as identified in the WA-ENV-PRO-507 4 Blasting Within 500m of Private Property Notification Procedure.

We are seeking to finalise this procedure prior to the end of 2017 to prevent delays to production in early 2018.

Could you please complete the following:

- Review the attached procedure
- Provide contact details for blasting notification in Table 1
- Provide draft access agreement if necessary (Crown Land and LLS)

If you have any queries please feel free to contact me on the below or Steve Peart Manager: Environment and Community on 6570 2209 or <a href="mailto:speart@peabodyenergy.com">speart@peabodyenergy.com</a>.

Thanks for your assistance to date.

Harry Egan Environmental Advisor – Peabody Wambo Coal Jerry's Plain Rd, Warkworth Via Singleton, NSW, 2330 Office: +61 (0)2 6570 2217 | Mobile: +61 (0)439 219 552 | hegan@peabodyenergy.com

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**APPENDIX B - Correspondence** 

## **Dobbins**, Nicole

From:	Jamie Maddocks <jamie.maddocks@lls.nsw.gov.au></jamie.maddocks@lls.nsw.gov.au>
Sent:	Tuesday, 14 November 2017 11:40 AM
То:	Egan, Harry D.
Cc:	David Baber; Martin, Ernie; brett.miners@lls.nsw.gov.au; Peart, Steven D
Subject:	Re: Wambo Coal Private Property Blasting Notification Procedure
Attachments:	WA-ENV-PRO-507 4 BLASTING WITHIN 500M OF PRIVATE PROPERTY
	NOTIFICATION PROCEDURE JM Edits Nov 17.docx; Reserve Use - Application
	Wambo Nov 17 DRAFT.docx

Dear Harry,

Please find comments and suggestions in track changes for your Notification Procedure.

In similar situations where TSRs are impacted by mine blasting activities, a Reserve Use Permit is issued under the Local Land Services Act 2013, which i suspect will be a better option than developing an Access Agreement. I have prepared a draft Permit application with special conditions that meet your specific requirements for your review, comment and consideration.

Please let me know what you think. Feel free to give me a call on the mobile to discuss at some stage.

Regards

Jamie

On 13 November 2017 at 11:58, Egan, Harry D. <<u>HEgan@peabodyenergy.com</u>> wrote:

Gents,

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## Harry Egan

Environmental Advisor - Peabody

#### Wambo Coal

Jerry's Plain Rd, Warkworth Via Singleton, NSW, 2330

Office: +61 (0)2 6570 2217 | Mobile: +61 (0)439 219 552 | hegan@peabodyenergy.com

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Jamie Maddocks Travelling Stock Reserve and Emergency Management Officer Hunter Local Land Services 816 Tocal Road PATERSON NSW 2421 t: 02 49384927 | f: 02 49301013 | m: 0429 924365 w: www.lls.nsw.gov.au/hunter https://www.facebook.com/HunterLLS



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То:	Egan, Harry D.; David Baber; jamie.Maddocks@lls.nsw.gov.au
Cc:	brett.miners@lls.nsw.gov.au; Peart, Steven D; O'Brien, Brendan
Subject:	RE: Wambo Coal Private Property Blasting Notification Procedure

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#### Regards

Ernie Martin | Senior Drill & Blast Engineer

Yancoal Australia LtdSITE:Hunter Valley Operations, 1011 Lemington Road, Ravensworth, NSW, 2330, AustraliaPOSTAL:1011 Lemington Road, Ravensworth, NSW, 2330, AustraliaPHONE:+61 2 700 286MOBILE:+61 428 600 286EMAIL:ernest.martin@coalandallied.com.auWEBSITE:www.yancoal.com.au



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