RAVENSWORTH OPEN CUT

GLENCORE



Number: RAVOC-1007099517-67 Status: Effective: 1 January 2023

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1. Introduction

Ravensworth Operations Pty Limited (Ravensworth Operations) have developed a Blast Management Plan (BMP) as required by Condition 17, Schedule 3 of Project Approval 09_0176 (as modified) (PA 09_0176). To address Condition 17(d), Schedule 3 of PA 09_0176, Ravensworth Operations are required to include a Road Closure Management Plan (RCMP) to be prepared in consultation with Singleton Shire Council (SSC).

1.1 Purpose and Scope

Ravensworth Operations have prepared this RCMP when blasting within 500m Lemington Road, as required by Condition 16 (a) and 17 (d), Schedule 3 of PA 09_0176. The RCMP is an appendix of the BMP.

The RCMP has been prepared in consultation with SCC (**Section 4.1**) to safely manage temporary road closures of Lemington Road when open cut blasting activities from Ravensworth Operations are within 500m of Lemington Road (**Figure 3.1**).

The purpose of this RCMP is to provide a description of the measures to be implemented by Ravensworth Operations to manage temporary road closures when blasting activities will interact with public roads.

1.2 Objectives

The objectives of this RCMP are to:

- Manage temporary road closures associated with blasting activity within 500 m of Lemington Road;
- Stipulate the roles and responsibilities for Ravensworth Operations employees in relation to the implementation of this RCMP

1.3 Roles and Responsibilities

The relevant roles and responsibilities associated with this RCMP are presented in **Table 1.1** below.

Table 1.1 Roles and Responsibilities

	Role	Responsibilities
Drill Engin	& eer	Ensure the correct road closure and road occupancy permits and licences are valid and in place for blasting
		Design blasting activities to minimise impacts on surrounding infrastructure and minimise the number of road closures
		Ensure that all the required road closure notifications have been undertaken prior to blasting

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Drill	&	Blast	Ensure that the drill pattern is drilled according to the design
Superi	ntend		Ensure that the blasting pattern is loaded with explosives and stemming according to the blast design
			Facilitate and/or implement blast management controls in accordance with the blast management system
Design Closur Superv	e		Coordinate the closure of Lemington Road for the purposes of blasting, ensuring it conforms to the standards required for the safe and effective closure of a public road
Enviro	nmen	ıt &	Coordinate blast monitoring according to the BMP
Comm Manag	•		Manage and report blast incidents
	-		Review the performance of the road closure management plan in meeting the objectives/targets



Figure 1.1 Section of Lemington Road Within 500m of Blasting Activities at Ravensworth Complex

2. Planning

2.1 Use of a Council Road – Works Within a Road Reserve

Ravensworth Operations have sought approval under Section 138 of the *Roads Act 1993* from SSC to permit the temporary closure of Lemington Road when blasting activities occur within 500m. Council is the appropriate roads authority under Division 3 of Part 9 of *the Roads Act 1993*.

Ravensworth Operations have been issued an approval for Application for the use of a Council Road (**Appendix A**) (14566/2022) for the period 13 September 2022 to 13 September 2023. Ravensworth Operations will renew the approval annually as required (**Appendix A**).

3. Implementation

This RCMP describes the road closure management measures to be implemented for Ravensworth Operations in accordance with Schedule 3, Condition 16 (a) and Condition 17 (d) of PA 09_0176. The key aspects of this RCMP include:

- Public notification requirements; and
- Procedure for the closure of Lemington Road.

3.1 Frequency

In accordance with Condition 11 Schedule 3 of PA 09_0176, blasting at the Ravensworth Operations will only occur on Monday to Saturday between 9:00 am and 5:00 pm.

All required closures of Lemington Road will be communicated to the public as described in **Section 3.2**.

3.2 Notification

Where blasting activities are to be undertaken within 500 metres of Lemington Road by Ravensworth Operations (**Figure 3.1**), the following notifications will be required:

Public Advertisement - Singleton Argus

Advertisements will be published in the Singleton Argus to inform the general public of road closures. The advertisement will be published weekly and include the time and date of scheduled blasts requiring closure of Lemington Road for the following week.

Permanent Road Closure Signage

Permanent signage will be installed on Lemington Road to advise road users of the scheduled date and time of any blast which requires the temporary closure of Lemington Road, as well as the estimated road closure duration. Ravensworth Operations will update the signage on the morning of any relevant blast.

Neighbouring Properties and Mining Operations

In accordance with the BMP, neighbouring properties and mining operations are notified prior to scheduled blasting activities. If a temporary closure of Lemington Road is required, this notification will include details of the road closure (i.e. time, date and duration of the closure).

3.3 Road Closure Procedure

Certified and/or suitably trained and competent traffic controllers will be engaged to assist in safely and efficiently undertake all road closures associated with blasting activities at Ravensworth Operations. Traffic controllers must be familiar with the road closure procedure and the road closure plan (Appendix B).

On the day of the road closure, approved temporary signage will be placed at the locations identified in **Appendix B**. All signage will be placed by a qualified person possessing the *Apply Traffic Control Plans* yellow card. All signage shall comply with *Australian Standard 1742.1* and *1743*.

A physical barrier will then be placed across the width of Lemington Road (see **Appendix B**) in accordance with Figure 6-23 of *Traffic control at work sites* Technical Manual (Transport for NSW, 2022).

Road sentries who are familiar with this RCMP and the road closure plan provided in **Appendix C** are to be provided by Ravensworth Complex. Sentries will be allocated to close local access roads (as required).

Traffic controllers must be in position thirty minutes prior to the scheduled blast time and must make radio contact with the Blast Controller upon arrival. A supervising sentry will be allocated by the Blast Controller and will remain with the traffic controllers for the duration of the road closure event.

The traffic controllers and sentries are to close all required roads upon receiving direction from the Blast Controllers, following which confirmation of road closure is to be provided back to the Blast Controller via radio. The Ravensworth Operations supervising sentry will then clear all traffic and personnel from the affected area and advise the Blast Controller when this has been completed.

The Ravensworth Operations supervising sentry must not re-open the road until advised by the Blast Controller that it is safe to do so and the road has been inspected by the supervising sentry to ensure it is in a safe and trafficable condition.

Any damage, fly-rock, or other problems must be rectified, with personnel available on standby for immediate road clearing purposes, if deemed necessary. SSC must be notified of any damage to the road and remedial work undertaken by qualified road repair personnel, in consultation with SSC, in a timely manner so as to minimise disruption to public thoroughfare

When the blast has been cleared, normal traffic can be resumed and temporary signage removed.

3.3.1 Passage of Emergency Vehicles

If traffic controllers or sentries encounter emergency vehicles requiring immediate access to Lemington Road, it may be necessary to stop the blast. This may also apply if other road users refuse to stop or ignore signage.

Traffic controllers and/or sentries must break radio silence and inform the Blast Controller if access is required (or has occurred) once shotfiring is in progress. If the blast can be stopped, emergency vehicles can be allowed to pass.

4. Review and Improvement

This RCMP will be reviewed every two years (or as required) as part of the Blast Management Plan (refer to Section 7.6 of the BMP).

This RCMP will also be reviewed if unexpected blast performance/behaviour indicates that changes to road closure practices or clearance distances are required or a blast related incident has occurred.

5. Document Information

5.1 Related Documents

Related documents, listed in *Table 5.1*1 below, are *documents* directly related to or referenced from within this document.

Table 5.1 – Related documents

Number	Title
RAVCX-307024981-4092	Ravensworth Mine Operations Blast Management Plan
RAVOC-1536591325-4645	Pre-Blasting Environmental Assessment Procedure
RAVOC-1536591325-3699	Post Blast Fume Management Procedure

5.2 Reference Information

Reference information, listed in *Table 5.2* below, is *information* that is directly referred to for the development of this document.

Table 5.2 – Reference information

Reference	Title	
RTA Traffic Control at Work Sites Manual		
AS 1742.1:2014 - Manual of uniform traffic control devices - General introduction and index of signs		
AS 1743:2001 — Road signs - Specifications		

5.3 Change Information

Full details of the document history are recorded in the document control register, by version. A summary of the current change is provided in *Table 5.33* below.

Table 5.3 – Change information

Versio	n Date	Change Details
1.0	05/09/2022	Preparation of the initial road closure management plan in consultation with Singleton Shire Council

Appendix A - Application for the use of a Council Road – 14566/2022



Enquiries: Arpit Seth

02 6578 7290

Our Ref: 14566/2022

14 September 2022

Ravensworth Operations PO Box 294 MUSWELLBROOK NSW 2333

Subject: Application for the use of a Council Road

Applicant: Ravensworth Operations

Application No: 14566/2022

Benefiting Property: New England Highway RAVENSWORTH 2330

Reference is made to your application received on 08/09/2022 for works within the road reserve of Lemington Road for the sole purpose of blasting as described in your application.

Lemington Road is a classified local road and Singleton Council is the Roads Authority. Consent from Singleton Council is required within the provision of the Roads Act.

Consent is granted in accordance with the attached terms and conditions. A copy of the attached agreement should be signed by an authorised person and returned to Council for processing.

If you require any further information or wish to discuss the details contained within the approval, please contact Arpit Seth on the above number.

Yours faithfully

Damian Morris

Manager Infrastructure Services

Appendix B - Lemington Road Traffic Control Plan





