

Marulan South Limestone Mine - Blast Management Plan

| Blast Management Plan | Review | Action | Response/ Alteration to BMP |
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| B23. The Applicant must prepare a Blast Management Plan for the development to the satisfaction of the Planning Secretary. This plan must: | | Please include page numbers on the document. | Numbers added |
| (a) be prepared by a suitably qualified and experienced person/s whose appointment has been endorsed by the Planning Secretary; | Existing endorsement letter | | |
| (b) describe the blast management system and the measures that will be implemented to ensure compliance with the blasting criteria and conditions of this consent; | Blasting will be monitoring against the criteria in Table 2 of the consent. Section 4 Outlines the blast management protocols in place for all blasting operations throughout the life of the operation. Section 6 Outlines the procedures and requirements of the blast monitoring system | Remove the word 'generally' from second paragraph Section 4.1. Unless you define the terms when this blast methodology will not be used. Why are the parameters in Section 4.1.1 appropriate, do they meet the requirements of the suitable Australian standard? Section 4.2 – a firmer commitment to avoid concurrent blasting is required. | Removed 'generally' The parameters are best practice to ensure correct explosive loading The two operations communicate to prevent concurrent blasting – text changed to reflect the higher level of commitment to this |
| (c) include a Blast Fume Management Strategy for: | Section 5.1 and Table 5.1 details the strategies to reduce the risk of blast fume generation | | |

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| (i) minimising blast fume emissions; | Table 5.1 details management measures to reduce the risk of fume generation and the responsible party | <p>In the Quality Assurance row, there is a blank row? In the Weather row there is missing information and no responsibilities are recorded, as well as Contamination row.</p> <p>What management measures would there be if a blast is left overnight as outlined in Section 4.4.</p> | <p>Removed blank row</p> <p>Corrected</p> <p>No additional measures required in terms of fume impact for a shot left overnight as the delay has no potential to cause more fume. Additional measures have been outlined in Section 4.4.</p> |
| (ii) rating and recording blast fume events; and | Commitment to record in Section 4.1 | | |
| (iii) reporting significant blast fume events to the Department and the EPA; | Yes are per Section 5.3 | | |
| (d) identify any agreed alternative ground vibration limits for public or private infrastructure in the vicinity of the site (if relevant); | | Has this occurred>? | The airblast and vibration limits are achievable at all private receivers and infrastructure. No alternative limits are required |
| (e) include a strategy to monitor, mitigate and manage the effects of blasting on heritage items ^a ; | | I cannot find any details regarding this requirement? | The historic heritage impact assessment in the EIS did not identify any risks to heritage items associated with blasting. Therefore, the historic heritage management plan didn't propose any blast management measures for heritage items. |

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| <p>(f) include a monitoring program for evaluating and reporting on compliance with the relevant conditions of this consent;</p> | <p>Section 6.1, Table 6.1 details the monitoring locations.</p> | | |
| <p>(g) include a protocol for identifying any blast-related exceedance, incident or non-compliance and for notifying the Department, the EPA and relevant stakeholders of these events;</p> | <p>Section 7.2 and Section 8.3 detail identification of exceedances and reporting.</p> | <p>Section 7.2 needs to acknowledge section 8.3. Annual reporting needs to acknowledge it is not for incidents.</p> <p>Sections 8.3, 8.4 and 8.6 are unclear and somewhat contradictory.</p> <p>Please consolidate and clearly step out the different reporting requirements for each type of instance. For example a non compliance IS an incident. These sections don't clearly identify this. While notification (Section 8.6) occurs for incidents and exceedances.</p> | <p>Added ref to 8.3 in s7.2</p> <p>'Exceedence' is not defined in the Consent whereas 'non compliance' and incident are. The consent require notifications of exceedences and hence it has been 'defined' in Section 8.6 to be for 95% criteria for airblast</p> |
| <p>(h) include public notification procedures to enable members of the public, particularly surrounding residents, to get up-to-date information on the proposed blasting schedule; and</p> | <p>Section 4.3 and 8.8</p> | <p>Please also include a commitment to work with the CCC regarding blasting notification including an indicative schedule.</p> <p>Also you should notify landowners of their ability as per condition B16 to request a baseline survey of their property.</p> <p>This will be beneficial in the future should any complaints be made.</p> | <p>Added Section 4.3</p> <p>Added Section 4.3</p> |

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| (i) include a protocol for investigating and responding to blast-related complaints. | Section 8.8.1 and 8.9 further conditions B16 – B20 deal with this issue. | | |
| ªThe locations of the heritage items are shown in Appendix 5. | | | |