

New Acland Coal Mine Stage 3 project

Coordinator-General's change report — Amendment to stated conditions (noise)

12 February 2019

The Department of State Development, Manufacturing, Infrastructure and Planning

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Synopsis

The New Acland Coal Mine Stage 3 project (the project) comprises expansion of the existing New Acland open-cut coal mine to produce up to 7.5 million tonnes of coal per annum. The project involves the development of three new pits within the Manning Vale and Willeroo resource areas.

On 19 December 2014 I approved the project to proceed, subject to conditions, and released my evaluation report on the environmental impact statement (2014 CGER). The (then) Department of Environment and Heritage Protection issued a draft Environmental Authority (EA) for the project on 28 August 2015.

There were 35 objectors to the draft EA, many of whom are local landholders who live close to the mine. The mining lease applications and the draft EA were subsequently referred to the Land Court for an objections hearing.

Member Smith of the Land Court conducted the original objections hearing and made recommendations on 31 May 2017. That decision was judicially reviewed by the Supreme Court early in 2018. President Kingham conducted a remitted hearing in October 2018 and delivered conditional recommendations on 7 November 2018.

The conditional recommendation from the remitted hearing was that relevant decision-makers approve the proponent's application to amend the EA and the associated mining lease applications if noise limits are reduced to 35 decibels between 6pm-10pm and 10pm-7am. The Land Court recommendation also required deletion of some conditions to remove duplication to apply a single set of noise limits for all project stages. This required the proponent to apply to the Coordinator-General to amend the stated conditions of the CGER.

On 3 December 2018, New Hope Group applied for a project change seeking the required amendments to my stated conditions.

The proposed changes would reduce existing noise limits during construction and operation to 35 decibels between the hours of 6pm–10pm and 10pm–7am daily and would apply to all stages of the project. The changes therefore represent more stringent noise levels and benefit to the community near the mine.

Coordinator-General's conclusion

I am satisfied that the requirements of Part 4 of the *State Development and Public Works Organisation Act 1971* (SDPWO Act) have been met and that sufficient information has been provided to enable the evaluation of the proposed changes to the conditions of the project.

I consider the proposed amendments to noise conditions would improve outcomes for the local community by imposing more stringent noise limits on mining activities during both construction and operation. I also consider the revised conditions to be consistent with the intent of the stated conditions in my CGER.

Accordingly, I approve the changes to the conditions of the project and have amended the stated conditions of the 2014 CGER at Appendix 2 of this change report.

In accordance with Section 35K of the SDPWO Act, conditions D1-D3 at Schedule D – Noise, Appendix 2 of the December 2014 CGER are now replaced by the conditions at

Appendix 2 of this change report. All other conditions in the December 2014 CGER continue to have effect, however the conditions of this change report prevail to the extent of any inconsistency.

A copy of this report will be issued to the proponent and will be available on the Department of State Development, Manufacturing, Infrastructure and Planning website at www.dsdmip.qld.gov.au/newauckland.



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Barry Broe
Coordinator-General

12 February 2019

1. Introduction

This change report has been prepared pursuant to section 35I of the *State Development and Public Works Organisation Act 1971* (Qld) (SDPWO Act) and provides an evaluation of the proposed changes to conditions of the New Acland Coal Mine project (the project) outlined in the project change application dated 3 December 2018. The proponent's project change application specifies the proposed changes to the conditions and these are summarised in Section 4 of this report.

This report does not re-evaluate the project as a whole. Further, it is not intended to revisit all the matters that were identified and subsequently addressed in the project's environmental impact statement (EIS) assessment process. Rather, this report concentrates on the particular issues identified in the project change application. The change report:

- summarises the change report process
- summarises the proponent's proposed changes to conditions of the project
- summarises the key issues associated with the proposed changes
- presents an evaluation of the proposed changes including consideration of information contained in the project change application and expert evidence before the Land Court
- provides a set of revised conditions under which the project may proceed.

2. About the project

2.1 The proponent

The proponent for the project is New Acland Coal Pty Ltd (the proponent), a subsidiary of New Hope Corporation Limited, which is an Australian company. Both the proponent and New Hope Corporation Limited are part of the New Hope Group.

The proponent has operated the existing New Acland Coal Mine since 2002. The existing New Acland Coal Mine is a 5.2 million tonnes per annum (Mtpa) open cut coal mine on mining lease 50170 and mining lease 50216, under the approval of Environmental Authority (EA) EPML003435713.

2.2 The project

The project is described in the Coordinator-General's Evaluation Report dated 19 December 2014 (2014 CGER). The project is located around 160 kilometres (km) west of Brisbane, 35km north-west of Toowoomba, and 14km north-west of the town of Oakey.

The New Acland Stage 3 project proposes expansion of the existing open-cut mine to produce up to 7.5Mtpa of thermal coal for an approximately 12-year period depending on when construction commences.

In their request for project change, the proponent conveyed that the accessible coal reserves on the existing project are forecast to be depleted by the second half of year 2020. For the existing mine to operate beyond 2020, the proponent advised it was essential that the remaining project approvals were attained in a timely manner to ensure continuous employment for their 265 employees and approximately 500 contractors.

2.3 Project delivery – post CGER

My evaluation report on the Environmental Impact Statement (EIS) for the project was released in December 2014. The (then) Department of Environment and Heritage Protection issued a draft Environmental Authority (EA) on 28 August 2015.

There were 27 objectors to the projects applications for mining leases (MLAs) under the *Mineral Resources Act 1989* and 35 objectors to the draft EA issued by DEHP under the *Environmental Protection Act 1994*. Twenty objectors objected to both the MLAs and the draft EA. The mining lease applications and the draft EA were subsequently referred to the Land Court for an objections hearing.

Member Smith of the Land Court conducted the original objections hearing and made his recommendations on 31 May 2017. On 14 February 2018, DES refused the environmental authority.

Member Smith's decision was judicially reviewed by the Supreme Court in early 2018. Following this, President Kingham conducted a remitted hearing in October 2018 and delivered conditional recommendations on 7 November 2018.

The conditional recommendation from the remitted hearing was that relevant decision-makers approve the proponent's application to amend the EA (EPML00335713) and the associated mining lease applications (MLA 50232, MLA 700002) if noise limits conditioned at F1 and F2 of the draft EA amendment are reduced to 35 decibels between 6pm-10pm and 10pm-7am. Draft amended EA conditions F1 and F2 correspond to the Coordinator-General's stated conditions at D1 and D2 at Schedule D – Noise, Appendix 2 of the CGER.

To give effect to the approval recommendation handed down by President FY Kingham, conditional orders at 1.1, 2.1 and 3.1 required:

- the applicant to apply to the Coordinator-General to amend the stated conditions that are conditions F1 and F2 of the draft amended environmental authority
- the Coordinator-General to amend those stated conditions
- the administering authority to incorporate the stated conditions (as amended by the Coordinator-General) in the draft environmental authority.

In accordance with orders 1.3, 2.3 and 3.3, should any of the above conditions not be fulfilled by 31 May 2019, the Land Court recommended the application to amend the EA and associated mining lease applications be refused.

3. Change report process

3.1 Application and reasons for proposed change

The proponent submitted a project change application to the Coordinator-General on 3 December 2018 in accordance with section 35C of the SDPWO Act. The project change application addressed the requirements of section 35E of the SDPWO Act, in that the written application describes the proposed changes and its effect on the project and states reasons for the proposed changes.

The proponent advised that the proposed changes to stated conditions D1-D3 is to give effect to the orders and recommendations handed down by the Land Court on 7 November 2018.

Under section 190(2) and 205 of the EP Act, EA conditions of approval must be consistent with Coordinator-General 'stated conditions' set out in the evaluation report. The proponent's change application seeks to enable the revised noise limits of the Land Court's recommendations to be applied on the projects final EA.

The changes proposed by the proponent seek to amend stated conditions D1-D3 at Schedule D – Noise, Appendix 2 of the 2014 CGER. The changes comprise:

- Deletion of Table D1a (condition D1) and condition D2 to apply a single set of noise limits for all project phases; remove allowances for noise emitted from existing project activities prior to the commencement of mining activities; and to avoid duplication of conditions F1 and F2 in the draft EA amendment application
- amendment of Table D1b (condition D1) to reduce noise limits to 35 decibels between the times of 6pm-10pm and 10pm-7am daily
- consequential amendments to conditions D1 and D3 to reflect deletion of Table D1a and condition 2.

These changes are in accordance with the Land Court orders 1.1, 2.1 and 3.1. A comparison of existing conditions is provided in Appendix 1.

3.2 Public notification

In considering the proposed change and its effects on the project under section 35G of the SDPWO Act, I determined that the proposed project changes did not require public notification. In making my determination, I considered the material provided by the proponent in their request for a project change and concluded:

- Public notification would duplicate consideration of noise limits undertaken throughout the Land Court hearings and consultation on the project to date
- The project change application only pursued changes to conditions in accordance with the findings of the Land Court. No other changes to conditions or the project were proposed
- The proposed changes to conditions do not introduce new project elements, impact additional areas of land, introduce new impacts or increase the severity of impacts assessed in the project EIS

- The nature of the proposed change represents a reduction of the allowable noise limits and therefore benefit the community living near the mine.

4. Evaluation of the change application

4.1 Introduction

In accordance with section 35I of the SDPWO Act, I have prepared this change report following an evaluation of the environmental effects of the proposed change, its effects on the project and any other related matters. Under section 35H of the SDPWO Act, I have considered:

- the nature of the proposed change and its effects on the project
- the project as currently evaluated under the 2014 CGER for the environmental impact statement (EIS) for the project
- the environmental effects of the proposed change and its effects on the project
- the material mentioned in section 35(1) to the extent I considered it to be relevant to the proposed change and its effects on the project.

The steps taken in the project's EIS assessment, the change application process and the EIS process documents including the CGER are available at: www.dsdmip.qld.gov.au/newacland

The following is my evaluation of the environmental effects of the proposed changes to the noise conditions of the project.

4.2 Land Court orders

The proponent's change application seeks to deliver the orders of the remitted Land Court hearing handed down on 7 November 2018 by President FY Kingham. The President's decision recommends that if noise limits are reduced in accordance with orders 1.1, 2.1 and 3.1, relevant decision makers should approve the project's draft EA amendment and associated MLAs. Orders 1.1, 2.1 and 3.1 are set out below.

1. Orders relating to the application to amend EPML00335713

- 1.1 The recommendation stated in paragraph 1.2 is subject to the condition that it does not take effect unless and until:
- a) The applicant applies to the Coordinator-General to amend the stated conditions that are conditions F1 & F2 of the draft amended environmental authority (EPML00335713):
 - (i) to impose the following noise limits

Noise level DB(A) measured as	All days		
	7am – 6pm	6pm – 10pm	10pm – 7am
LAeq,	42	35	35
Adj, 15 min			
LAm _{ax}	-	-	50
LAm _{ax} rail spur	-	-	56

LAeq(24hr) rail spur	-	-	50
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- (ii) to apply those noise limits to noise from mining activities on all tenures subject to the environmental authority when the environmental authority, as amended, takes effect; and
- b) The Coordinator-General amends those stated conditions; and
- c) The administering authority incorporates the stated conditions (as amended by the Coordinator-General) in the draft environmental authority.

2. Orders relating to the application for mining lease ML50232

2.1 The recommendation stated in paragraph 2.2 is subject to the condition that it does not take effect unless and until:

- a) The applicant applies to the Coordinator-General to amend the stated conditions that are conditions F1 & F2 of the draft amended environmental authority (EPML00335713):
 - (i) to impose the following noise limits

Noise level DB(A) measured as	All days		
	7am – 6pm	6pm – 10pm	10pm – 7am
LAeq,	42	35	35
Adj, 15 min			
LAmx	-	-	50
LAmx rail spur	-	-	56
LAeq(24hr) rail spur	-	-	50

- (ii) to apply those noise limits to noise from mining activities on all tenures subject to the environmental authority when the environmental authority, as amended, takes effect; and
- b) The Coordinator-General amends those stated conditions; and
- c) The administering authority incorporates the stated conditions (as amended by the Coordinator-General) in the draft environmental authority.

3. Orders relating to the application for mining lease ML700002

3.1 The recommendation stated in paragraph 3.2 is subject to the condition that it does not take effect unless and until:

- a) The applicant applies to the Coordinator-General to amend the stated conditions that are conditions F1 & F2 of the draft amended environmental authority (EPML00335713):
 - (i) to impose the following noise limits

Noise level DB(A) measured as	All days		
	7am – 6pm	6pm – 10pm	10pm – 7am
LAeq,	42	35	35
Adj, 15 min			
LAmx	-	-	50
LAmx rail spur	-	-	56
LAeq(24hr) rail spur	-	-	50

- (ii) to apply those noise limits to noise from mining activities on all tenures subject to the environmental authority when the environmental authority, as amended, takes effect; and
- b) The Coordinator-General amends those stated conditions; and
- c) The administering authority incorporates the stated conditions (as amended by the Coordinator-General) in the draft environmental authority.

My evaluation of the project change includes reference to relevant aspects of Member Smith's decision in the original objections hearing and the findings provided in President FY Kingham's Land Court decision (the remitted hearing) as appropriate.

In reaching its recommendations relating to noise limits for the project, the Land Court experienced the benefit of extensive expert evidence tested by cross-examination, site visits as well as oral and written submission from objectors that was in addition to the material considered during the preparation of my CGER.

The evidence presented by expert witnesses in relation to noise is summarised in the recommendations of Member Smith and President Kingham, including points of agreement and contention between experts.

4.3 Determination of existing noise limits

At the time of preparing my evaluation of the project in 2014, 44 sensitive noise receptors were located within 10km of the mine. Forty of these, were located within 5km of the mine.

In consideration of the information available to me at the time, I determined that the Environmental Protection (Noise) Policy 2008 (EPP (Noise)) provided the appropriate statutory basis for determining appropriate noise limits for the project.

The EPP (Noise) policy is managed by the Department of Environment and Science and establishes the acoustic quality objectives which defines the maximum level of noise that should be experienced in the acoustic environment of the area or place (sensitive receptor).

With reference to the acoustic quality objectives outlined in the EPP (Noise) and consultation with the former Department of Environment, Heritage and Protection, I stated conditions for the project's draft EA amendment at Schedule D – Noise, Appendix 2 of the 2014 CGER. These conditions set noise limits for the project at 42dB for day (7am to 6pm) and evening (6pm to 10pm) and 37dB at night (10pm to 7am). These limits would take effect from the commencement of mining activities.

To account for noise emitted by the existing mine operations, I also included interim conditions to enable the proponent to transition from the current EA to the new EA requirements. The interim noise limits only apply to the project until the commencement of mining activities occurred such as the removal of overburden.

In accordance with my conditions, noise would be measured external to the locations of sensitive noise receptors using the $L_{Aeq, adj, 15min}$ technique. Accordingly, the limits I conditioned in the 2014 CGER represented a substantial improvement on the existing EA conditions associated with the existing mining operations and were more stringent

than the acoustic quality objectives set out in the EPP (Noise). This is because the measurement of noise was to be averaged over a 15-minute period rather than a one-hour interval as Schedule 1 of the EPP (Noise) contemplates.

My full evaluation of potential noise and vibration impacts associated with the project is outlined in section 5.2 and relevant appendices of the 2014 CGER.

4.4 Key findings of the Land Court

The Land Court confirmed that I had appropriately applied the EPP (Noise) in establishing noise limits for the project and had not put the residents' health or wellbeing at risk.

President FY Kingham resolved that although the noise limits set by my CGER are acceptable in most circumstances, in this case, a limit of 35 dBA in the evening and night was more conducive to the wellbeing of the community and furthermore that a single set of noise limits was appropriate for all stages of the project.

The Court found that the revised noise limits should apply to mining activities on all tenures subject to the environmental authority when the environmental authority, as amended, takes effect.

I accept the findings of the Land Court in relation to the application of appropriate noise limits for the project.

4.5 Environmental effects of proposed change

The revised noise limits represent a 5dBA reduction for the evening and a 2dBA reduction at night from the stated conditions in my 2014 evaluation report. Expert evidence before the Court found that if the maximum noise limit of 35dBA is reached outside a sensitive receptor with partially closed or open windows the indoor noise could reasonably be expected to be 28dBA. If the windows are shut the noise reduction would be much greater, at least 20dBA resulting in an indoor noise level of around 15dBA.

An indoor noise level of between 15dBA (windows shut) and 28dBA (partially open windows) in the night time and evening is below the acoustic quality objectives of the Environmental Protection (Noise) Policy 2008 as they relate to the environmental values of health, wellbeing and in relation to the ability to sleep.

The Noise Management Manual (Department of Environment and Heritage Protection, 2013) describes common sound pressure levels which provide a useful reference point for understanding the outcomes of the revised noise limits for sensitive receptors. With reference to the Noise Management Manual, at 28dBA, the indoor noise at sensitive receptors (assuming an outdoor noise limit of 35dBA) would be comparable to background noise levels typical of quiet countryside.

The Noise Management Manual also includes an overview of the subjective effect of changes in noise levels. The manual indicates that a change in level of 3dB would be just perceptible, 5dB would be clearly perceptible and 10dB would be twice as loud. The reduction in noise limits are expected to be clearly perceptible in the evening, in particular.

I expect that the evening and night time noise limit of 35dBA will be achieved outside sensitive receptors and that non-compliance with these limits will immediately be rectified by the proponent.

The Land Court's order 2.1 found that a single set of noise limits was appropriate for all stages of the project and stated that the revised noise limits are to apply to noise from mining activities on all tenures subject to when the environmental authority, as amended by DES, takes effect.

As such, the 2014 CGER conditions that set interim conditions for the existing operations, so that the proponent could transition from the current EA to the new EA requirements, have been deleted. Discussion about existing conditions at 'Table D1a' and 'D2' at Appendix 1 of this report confirms this change.

5. Conclusion

This report concludes my evaluation of the proposed project change pursuant to section 35I of the SDPWO Act.

I am satisfied that the requirements of the SDPWO Act have been met and that sufficient information has been provided to enable the evaluation of the project change seeking amendment of noise conditions stated in the 2014 CGER.

I consider the proposed amendments to noise conditions would improve outcomes for the local community by imposing more stringent noise limits on mining activities during both construction and operation. I also consider the revised conditions to be consistent with the intent of the stated conditions in my CGER.

Accordingly, I approve the changes to conditions of the New Acland Coal Mine Stage 3 project as set by the Land Court, included in the proponent's December 2018 project change application and described in Appendix 1 of this report. Appendix 2 confirms the amended conditions.

In accordance with section 35K of the SDPWO Act, the Coordinator-General's report on the EIS for the project and the Coordinator-General's change report both have effect for the project. However, if the reports conflict, this Coordinator-General's change report prevails to the extent of the inconsistency. The proponent must implement all conditions in this report as well as any further conditions of approval that may be placed on the project's EA.

In accordance with section 35L of SDPWO Act, this change report will lapse on the lapsing of the 2014 CGER.

A copy of this report will be issued to the proponent.

A copy of this report and all relevant EIS assessment documentation are available on the Department of State Development's website at www.dsdmip.qld.gov.au/newauckland

Appendix 1. Comparison of current and revised stated conditions (Noise)

Current condition	Revised condition																																																						
<p>Noise Limits</p> <p>D1 The holder of this environmental authority must ensure that noise generated by the mining activities does not cause the criteria in Table D1a - Noise limits (existing operations) and Table D1b - Noise limits (operations) to be exceeded at a noise sensitive place or commercial place.</p>	<p>Noise Limits</p> <p>Condition amendment to make reference to Table D1a only.</p> <p>D1 The holder of this environmental authority must ensure that noise generated by the mining activities does not cause the criteria in Table D1a - Noise limits to be exceeded at a noise sensitive place or commercial place.</p>																																																						
<p>Table D1a – Noise limits (existing operations)</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr style="background-color: #003366; color: white;"> <th rowspan="2">Noise level dB(A) measured as</th> <th colspan="3">All days</th> </tr> <tr style="background-color: #003366; color: white;"> <th>7am – 6pm</th> <th>6pm – 10pm</th> <th>10pm – 7am</th> </tr> </thead> <tbody> <tr> <td colspan="4">Noise measured at a 'Noise sensitive place'</td> </tr> <tr> <td>L_{Ar}, 1hour</td> <td>50</td> <td>45</td> <td>40</td> </tr> <tr> <td>L_{Amax}</td> <td>-</td> <td>-</td> <td>50</td> </tr> </tbody> </table>	Noise level dB(A) measured as	All days			7am – 6pm	6pm – 10pm	10pm – 7am	Noise measured at a 'Noise sensitive place'				L _{Ar} , 1hour	50	45	40	L _{Amax}	-	-	50	<p>Table deleted to remove duplication and apply a single set of noise limits for all project stages. The Land Court found that a single set of noise limits was appropriate for all stages of the project (see Section 4.4 of this report).</p> <p>Amendment reflects Land Court orders 1.1 a)(ii), 2.1 a)(ii) and 3.1 a)(ii) which require the proponent to apply to the Coordinator-General to amend the stated conditions such that the revised noise limits apply to noise from mining activities on all tenures subject to the environmental authority when the environmental authority, as amended, takes effect (see Section 4.2 of this report).</p>																																			
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<p>D2 Noise limits in Table D1a – Noise limits (existing operations) only apply until the commencement of mining activities (removal of overburden) for the Manning Vale East Pit, the Manning Vale West Pit or the Willeroo Pit as shown on Figure 1.</p>	<p>Condition deleted as it refers to noise limits set in Table D1a, which is also deleted.</p> <p>Amendment reflects Land Court orders 1.1 a)(ii), 2.1 a)(ii) and 3.1 a)(ii) which require the proponent to apply to the Coordinator-General to amend the stated conditions such that the revised noise limits apply to noise from mining</p>																																																						

activities on all tenures subject to the environmental authority when the environmental authority, as amended, takes effect (see Section 4.2 of this report).

D3 If monitoring indicates the potential for exceedance of the relevant limits in Table D1a and Table D1b – Noise Limits then the environmental authority holder must immediately implement noise abatement measures to avoid exceeding the relevant limits.

Condition renumbered only.
D2 If monitoring indicates the potential for exceedance of the relevant limits in Table D1a – Noise Limits then the environmental authority holder must immediately implement noise abatement measures to avoid exceeding the relevant limits.

Airblast overpressure nuisance

D4 The holder of this environmental authority must ensure that blasting does not cause the limits for peak particle velocity and air blast overpressure in Table D2 – Blasting noise limits to be exceeded at a sensitive place or commercial place.

Condition renumbered only.
Airblast overpressure nuisance
D3 The holder of this environmental authority must ensure that blasting does not cause the limits for peak particle velocity and air blast overpressure in Table D2 – Blasting noise limits to be exceeded at a sensitive place or commercial place.

Table D2 – Blasting noise limits

Blasting noise limits	Sensitive or commercial blasting noise limits	
	Monday to Friday 7am to 6pm Saturday 9am to 1pm	Monday to Friday 6pm to 7am Saturday 1pm to 9am Sunday and Public Holidays
Airblast overpressure	115 dB (Linear) Peak for 9 out of 10 consecutive blasts initiated and not greater than 120 dB (Linear) Peak at any time	No blasting
Ground vibration peak particle velocity	5mm/second peak particle velocity for 9 out of 10 consecutive blasts and not greater than 10 mm/second peak particle velocity at any time	No blasting

Table D2 – Blasting noise limits

Blasting noise limits	Sensitive or commercial blasting noise limits	
	Monday to Friday 7am to 6pm Saturday 9am to 1pm	Monday to Friday 6pm to 7am Saturday 1pm to 9am Sunday and Public Holidays
Airblast overpressure	115 dB (Linear) Peak for 9 out of 10 consecutive blasts initiated and not greater than 120 dB (Linear) Peak at any time	No blasting
Ground vibration peak particle velocity	5mm/second peak particle velocity for 9 out of 10 consecutive blasts and not greater than 10 mm/second peak particle velocity at any time	No blasting

Monitoring and reporting

Condition renumbered only.
Monitoring and reporting

- D5** Noise monitoring and recording must include the following descriptor characteristics and matters:
- (a) LAN,T (where N equals the statistical levels of 1, 10 and 90 and T = 15 15 to 60 mins)
 - (b) background noise LA90
 - (c) the level and frequency of occurrence of impulsive or tonal noise and any adjustment and penalties to statistical levels
 - (d) atmospheric conditions including temperature, relative humidity and wind speed and directions
 - (e) effects due to any extraneous factors such as traffic noise
 - (f) location, date and time of monitoring
 - (g) if the complaint concerns low frequency noise, Max LpLIN,T and one third octave band measurements in dB(LIN) for centre frequencies in the 10 – 200 Hz range.

- D4** Noise monitoring and recording must include the following descriptor characteristics and matters:
- (a) LAN,T (where N equals the statistical levels of 1, 10 and 90 and T = 15 15 to 60 mins)
 - (b) background noise LA90
 - (c) the level and frequency of occurrence of impulsive or tonal noise and any adjustment and penalties to statistical levels
 - (d) atmospheric conditions including temperature, relative humidity and wind speed and directions
 - (e) effects due to any extraneous factors such as traffic noise
 - (f) location, date and time of monitoring
 - (g) if the complaint concerns low frequency noise, Max LpLIN,T and one third octave band measurements in dB(LIN) for centre frequencies in the 10 – 200 Hz range.

- D6** The holder of this environmental authority must develop and implement a blast monitoring program to monitor compliance with Table D2 – Blasting noise limits for
- (a) At least 90% of all blasts undertaken on this site in each year at the nearest sensitive place or commercial place to the centroid of the blast.
 - (b) All blasts conducted during any time period specified by the administering authority at the nearest sensitive place or commercial place.

- Condition renumbered only.
- D5** The holder of this environmental authority must develop and implement a blast monitoring program to monitor compliance with Table D2 – Blasting noise limits for
- (c) At least 90% of all blasts undertaken on this site in each year at the nearest sensitive place or commercial place to the centroid of the blast.
 - (d) All blasts conducted during any time period specified by the administering authority at the nearest sensitive place or commercial place.

Appendix 2. Amended Stated Conditions

Schedule D - (Noise)

Noise Limits

D1 The holder of this environmental authority must ensure that noise generated by the mining activities does not cause the criteria in Table D1a - Noise limits to be exceeded at a noise sensitive place or commercial place.

Table D1a – Noise limits (includes construction activities)

Noise level dB(A) measured as	All days		
	7am – 6pm	6pm – 10pm	10pm – 7am
Noise measured at a 'Noise sensitive place'			
L _{Aeq, adj, 15 min}	42	35	35
L _{Amax}	-	-	50
L _{Amax} rail spur	-	-	56
L _{Aeq(24hr)} rail spur	-	-	50

D2 If monitoring indicates the potential for exceedance of the relevant limits in Table D1a – Noise Limits then the environmental authority holder must immediately implement noise abatement measures to avoid exceeding the relevant limits.

Airblast overpressure nuisance

D3 The holder of this environmental authority must ensure that blasting does not cause the limits for peak particle velocity and air blast overpressure in Table D2 – Blasting noise limits to be exceeded at a sensitive place or commercial place.

Table D2 – Blasting noise limits

Blasting noise limits	Sensitive or commercial blasting noise limits	
	Monday to Friday 7am to 6pm Saturday 9am to 1pm	Monday to Friday 6pm to 7am Saturday 1pm to 9am Sunday and Public Holidays
Airblast overpressure	115 dB (Linear) Peak for 9 out of 10 consecutive blasts initiated and not greater than 120 dB (Linear) Peak at any time	No blasting
Ground vibration peak particle velocity	5mm/second peak particle velocity for 9 out of 10 consecutive blasts and not greater than 10 mm/second peak particle velocity at any time	No blasting

Monitoring and reporting

D4 Noise monitoring and recording must include the following descriptor characteristics and matters:

- (e) LAN,T (where N equals the statistical levels of 1, 10 and 90 and T = 15 15 to 60 mins)
- (f) background noise LA90

- (g) the level and frequency of occurrence of impulsive or tonal noise and any adjustment and penalties to statistical levels
- (h) atmospheric conditions including temperature, relative humidity and wind speed and directions
- (i) effects due to any extraneous factors such as traffic noise
- (j) location, date and time of monitoring
- (k) if the complaint concerns low frequency noise, Max LpLIN,T and one third octave band measurements in dB(LIN) for centre frequencies in the 10 – 200 Hz range.

D5 The holder of this environmental authority must develop and implement a blast monitoring program to monitor compliance with Table D2 – Blasting noise limits for At least 90% of all blasts undertaken on this site in each year at the nearest sensitive place or commercial place to the centroid of the blast.

All blasts conducted during any time period specified by the administering authority at the nearest sensitive place or commercial place.

Acronyms and abbreviations

A	A-weighting (corresponding to the response of the human ear)
adj	Adjusted for tonality or impulsivity (which have added adverse impact)
CGER	Coordinator-General's evaluation report
dB	Decibels
dB(A)	adjusted decibels
EA	environmental authority
EIS	environmental impact statement
EP Act	<i>Environmental Protection Act 1994</i>
EPP (Noise)	Environmental Protection (Noise) Policy 2008
km	Kilometres
L _{Aeq}	the average A-weighted sound pressure level of a continuous steady sound that has the same mean square sound pressure as a sound level that varies with time
L _{Amax}	the maximum average A-weighted sound pressure measured over a specified period of time
LAN,T	statistical descriptor for the variation of noise
m	Metres
max L _{PZ,15 min}	the maximum value of the Z-weighted sound pressure level measured over 15 minutes
MLA	mining lease application
MR Act	<i>Mineral Resources Act 1989 (Qld)</i>
Mtpa	million tonnes per annum
SDPWO Act	<i>State Development and Public Works Organisation Act 1971 (Qld)</i>
SEP	Stakeholder engagement plan
SR	sensitive receptor
15min	15 minute measurement interval
2014 CGER	The Coordinator-Generals evaluation report on the environmental impact statement dated 19 December 2014.

Glossary

Coordinator-General	The corporation sole constituted under section 8A of the SDPWO Act and preserved continued and constituted under section 8 of the SDPWOA Act.
coordinated project	A project declared as a 'coordinated project' under section 26 of the SDPWO Act. Formerly referred to as 'significant project'.
December 2018 project change application	The project change application submitted by the proponent on 4 December 2018.
environment	As defined in Schedule 2 of the SDPWO Act, includes the social, economic, aesthetic and cultural conditions that affect, or are affected by, things mentioned in paragraphs (a) to (c): a) ecosystems and their constituent parts, including people and communities b) all natural and physical resources c) the qualities and characteristics of locations, places and areas, however large or small, that contribute to their biological diversity and integrity, intrinsic or attributed scientific value or interest, amenity, harmony and sense of community.
imposed condition	A condition imposed by the Queensland Coordinator-General under section 54B of the SDPWO Act. The Coordinator-General may nominate an entity that is to have jurisdiction for that condition
significant project	A project declared (prior to December 2012) as a 'significant project' under section 26 of the SDPWO Act. Projects declared after 21 December 2012 are referred to as 'coordinated projects'.
stated condition	Conditions stated (but not enforced by) the Coordinator-General under sections 39, 45, 47C, 49, 49B and 49E of the SDPWO Act. The Coordinator-General may state conditions that must be attached to a: <ul style="list-style-type: none"> • development approval under the <i>Sustainable Planning Act 2009</i> • proposed mining lease under the <i>Mineral Resources Act 1989</i> • draft environmental authority (mining lease) under Chapter 5 of the <i>Environmental Protection Act 1994</i> (EPA) • proposed petroleum lease, pipeline licence or petroleum facility licence under the <i>Petroleum and Gas (Production and Safety) Act 2004</i> non-code compliant environmental authority (petroleum activities) under Chapter 4A of the EPA.
the project	The project described in the Coordinator-General's Evaluation Report dated 19 December 2014.

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