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1.0 INTRODUCTION

1.1 Overview

This Noise Management Plan (NMP) has been developed for Boggabri Coal Operations Pty Ltd (BCOPL), a wholly owned subsidiary of Boggabri Coal Pty Ltd (80%), Chugoku Electric Power Australia Resources Pty. Ltd (10%) and NS Boggabri Pty Limited (10%).

Boggabri Coal Mine (BCM) is located 15 km north-east of the township of Boggabri in north-western New South Wales. BCM is an open cut coal mine that has been operating since 2006. Truck and excavator operations are used to mine a run-of-mine (ROM) coal, which is crushed and screened to produce a thermal coal product or washed in a Coal Handling Preparation Plant (CHPP) to produce a coking or Pulverised Coal Injected (PCI) product. Product coal is loaded onto trains via a train loading facility at the mine site and transported by rail for overseas consumption via the Port of Newcastle. -

BCM and the CHPP is managed and operated by BCOPL.

Project Approval number 09_0182 for the Boggabri Coal Project, granted by the NSW Planning Assessment Commission (PAC) under Part 3A of the *Environmental Planning and Assessment Act 1979* (EP&A Act) on 18 July 2011, as modified from time to time, (Project Approval) allows BCOPL to extend its mining operations until 2036, and increase its production rate to 8.6 Mtpa of ROM coal from a total resource of 145 Mt.

Schedule 3, Condition 13 of the Project Approval requires the preparation of an NMP. This NMP has been prepared in fulfilment of these requirements. The specific requirements of the NMP are listed in Table 2-1. Consultation with the Boggabri Coal Community Consultative Committee (CCC) and the Environment Protection Authority of NSW (EPA) was undertaken during preparation of the NMP (refer to Section 2.0 and Appendix D).

All BCOPL staff and contractors working at BCM are required to operate in accordance with this NMP.

1.2 Purpose of this NMP

The purpose of this NMP is to comply with Schedule 3, Condition 13 of the Project Approval and, in doing so, facilitate compliance with noise impact and management conditions in the Project Approval.

1.3 Application of this NMP

This NMP applies to BCOPL employees and contractors at the BCM and covers all areas within the 'Project Boundary' as defined in the Project Approval. A figure showing the extent of these areas is provided in Appendix A.

This NMP covers all operational activities that have the potential to generate noise at the BCM. This NMP does not apply to construction noise, all construction of mine related infrastructure has been completed.

Cumulative noise management for BCM and the neighbouring Tarrawonga and Maules Creek Coal Mines is detailed in the Boggabri-Tarrawonga-Maules Creek (BTM Complex) Noise Management Strategy (NMS) attached in Appendix E. Key elements of the BTM Complex (formerly known as Leard Forest Mining Precinct) NMS are discussed in Sections 5.5 and 6.3 of this NMP.

2.0 STATUTORY REQUIREMENTS

Table 2-1: Project approval NMP conditions

| Applicable condition | Requirement of project approval | NMP reference |
|----------------------------|---|----------------------|
| Schedule 3 Condition 13 | The Proponent must prepare and implement a Noise Management Plan for the project to the satisfaction of the Secretary. | Whole NMP Document |
| Schedule 3 Condition 13(a) | The NMP must be prepared in consultation with the EPA and the CCC, and submitted to the Secretary for approval within 6 months of the date of this approval | Appendix D |
| Schedule 3 Condition 13(b) | The NMP must describe the measures that would be implemented to ensure: <ul style="list-style-type: none"> • best management practice is being employed; • the noise impacts of the project are minimised during meteorological conditions when the noise limits in this approval do not apply; and • compliance with the relevant conditions of this approval | Section 5.0 |
| Schedule 3 Condition 13(c) | The NMP must describe the proposed noise management system in detail | Whole NMP Document |
| Schedule 3 Condition 13(d) | The NMP must include a risk/response matrix to codify mine operational responses to varying levels of risk resulting from weather conditions and specific mining activities | Section 5.3 |
| Schedule 3 Condition 13(e) | The NMP must include commitments to provide summary reports and specific briefings at CCC meetings on issues arising from noise monitoring | Section 7.5 |
| Schedule 3 Condition 13(f) | The NMP must include a monitoring program that: <ul style="list-style-type: none"> • uses a combination of real time and supplementary attended monitoring to evaluate the performance of the project; • adequately supports the proactive and reactive noise management system on site; • uses predictive meteorological forecasting to incorporate proactive mitigation measures to manage noise impacts; • includes monitoring of inversion strength at an appropriate sampling rate to determine compliance with noise limits; • evaluates and reports on the effectiveness of the noise management system on site; • provides for the annual validation of the noise model for the project | Sections 6.0 and 7.0 |

| Applicable condition | Requirement of project approval | NMP reference |
|-------------------------------|--|---|
| Schedule 3 Condition 13(g) | <p>The NMP must include a Leard Forest Mining Precinct Noise Management Strategy that has been prepared in consultation with other coal mines in the Precinct to minimise the cumulative noise impacts of all mines within the Precinct, that includes:</p> <ul style="list-style-type: none"> • systems and processes to ensure that all mines are managed to achieve their noise criteria; • a shared environmental monitoring network and data sharing protocol; and • procedures for identifying and apportioning the source/s and contribution/s to cumulative noise impacts for operating mines and other sources, using the noise and meteorological monitoring network and appropriate investigative tools. | See sections 5.5 and 6.3 and refer to BTM Complex Noise Management Strategy (refer to Appendix E) |
| Schedule 3 Condition 13A | The Proponent must implement the Noise Management Plan as approved by the Secretary. | Sections 6.0, 7.0 and 8.0 |
| Schedule 5 Condition 13 | <p>The Proponent shall ensure that the noise and air quality risk/response matrices required to be developed in the Noise and Air Quality Management Plans and validated real time monitoring data are available online and includes:</p> <ul style="list-style-type: none"> • timely publication of validated monitoring data in a clearly understandable form; • identification of mine operational responses to monitoring data and weather forecasts; and • provision for on-line input/response by members of the community and real time engagement with regionally-based regulatory compliance staff, to the satisfaction of the Secretary. | Sections 5.3, 6.3 and 6.4 |

3.0 EXISTING ENVIRONMENT

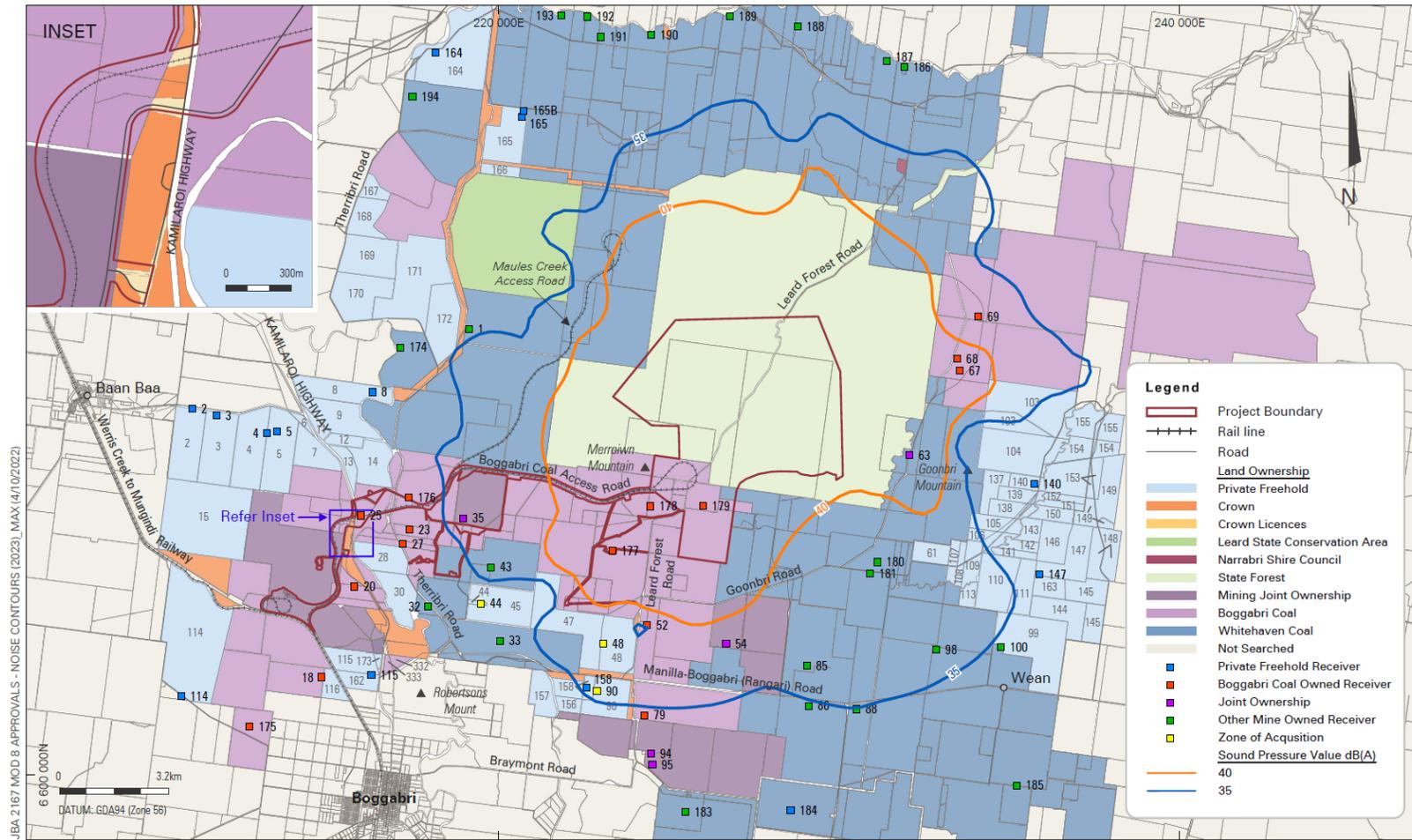
3.1 Background noise

BCM and the neighbouring Tarrawonga and Maules Creek Coal Mines are located in a rural area, away from major roads and other major industry.

Monitoring has demonstrated that background levels regularly fall to 30 dB(A) or below. A background noise level of 30 dB(A) was adopted during the EA (Hansen Bailey, 2010) completed for the Project Approval. This level was adopted for all receivers and time periods, in accordance with the NSW Industrial Noise Policy.

3.2 Sensitive receptors

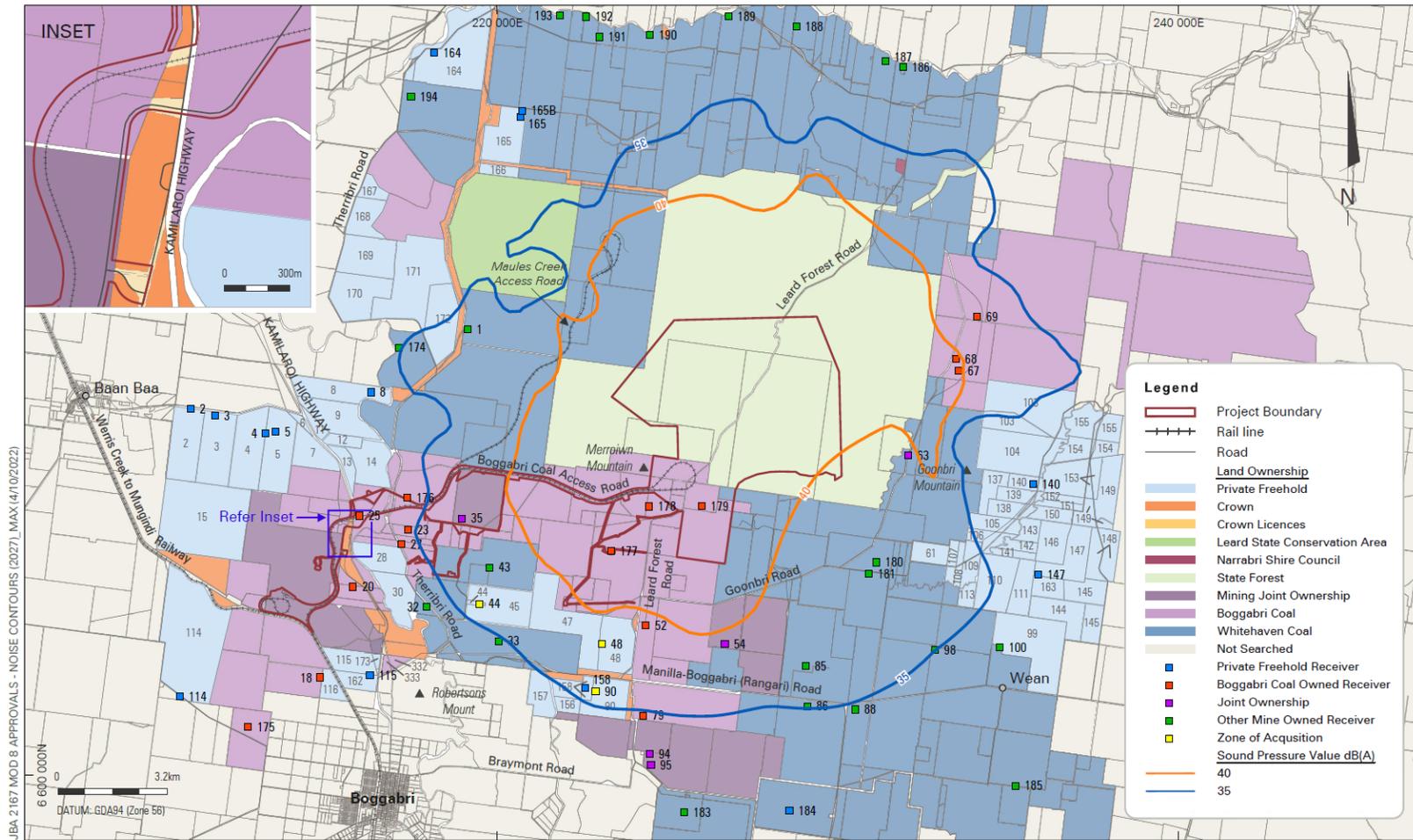
Receptors sensitive to noise impacts from operational activities associated with the BCM were identified in the Modification 8 EA (EMM, 2022). Noise impacts on sensitive receptors were modelled for year 2023 and 2027 of operations. The $L_{Aeq,15minute}$ 35 and 40 dB noise contours for each of these years of operations was mapped to show the extent of the areas likely to be impacted. Modelled noise impacts, as detailed in the Modification 8 EA, are shown in Figure 3-1 and Figure 3-2. The noise mitigation and management measures outlined in Section 5.0 will be implemented for sensitive receptors within the areas bounded by the modelled noise impact contours.



BOGGABRI COAL MINE

Indicative Noise Contours 2023
- Maximum all Periods (LAeq,15minute dB)

Figure 3-1: Indicative 2023 noise contours



BOGGABRI COAL MINE

Indicative Noise Contours 2027
- Maximum all Periods (LAeq, 15minute dB)

Figure 3-2: Indicative 2027 noise contours

4.0 NOISE CRITERIA

Noise criteria and conditions applicable to the BCM are specified in the Project Approval and summarised in the following subsections.

4.1 Noise affected land

Project Approval Schedule 3, Conditions 3 to 5 and 8 describe the actions the Proponent is required to follow with regard to receivers on noise affected land. These actions are set out in detail in Appendix B. In summary, they provide that:

- except if the Proponent has an agreement with the owners of privately-owned residences (defined in Condition 3 as residences not owned by a mining company), and the Proponent has advised the Department in writing of this agreement,
 - those owners may make a written request to BCOPL for mitigation measures or acquisition of the residence; and
 - BCOPL must undertake whichever option requested by the owner(s);
- following implementation of mitigation measures, if the owners have reason to believe that noise impacts are more than 3 dB(A) above the predicted noise levels for that residence (see Table 4-1), the owners can request an independent noise impact assessment for the residence; and
- if the Secretary considers that a noise impact assessment is warranted, then the Proponent shall commission an assessment;
- if the assessment shows that noise generated by the Project causes sustained exceedances, or is likely to cause sustained exceedances, of the predicted noise levels by more than 3 dB(A) the owners may require Proponent to acquire the residence and land in accordance with the procedures in conditions 8-9 of Schedule 4 of the Project Approval.

Table 4-1: Maximum predicted noise levels

| Location Property/ID | Day | Evening | Night | Night |
|----------------------|---------------------------|---------------------------|---------------------------|-------------------------|
| | L _{Aeq} (15 min) | L _{Aeq} (15 min) | L _{Aeq} (15 min) | L _{A1} (1 min) |
| 44 | 35 | 35 | 36 | 45 |
| 48 | 35 | 38 | 39 | 48 |
| 90 | 35 | 35 | 36 | 45 |

Notes:

1. To interpret the locations referred to in Table 4-1, see the applicable figure in Appendix 4.
2. The noise assessment must be undertaken by a suitably qualified, experienced and independent person, whose appointment has been approved by the Secretary and include either:
 - a. sufficient monitoring at the affected residence to allow for assessment of the impacts under a range of meteorological conditions (including adverse conditions) likely to be experienced at the residence; or
 - b. Sufficient monitoring to allow reliable prediction of the likely impacts under the range of meteorological conditions (including adverse conditions) likely to be experienced at the residence.
3. Monitoring should be conducted in accordance with the requirements of the NSW Noise Policy for Industry (EPA, 2017).

4. Where predictions of likely impacts is to be used, either in substitution for, or in conjunction with, direct measurement of noise impacts at the residence, it must be based on sufficient monitoring data to provide a reliable estimate of the impacts (including under adverse meteorological conditions) and be derived using standard noise modelling techniques accepted by the EPA.
 5. The Proponent must ensure that the requested noise impact assessment is submitted to the Secretary within 3 months of the Secretary's decision that the assessment was warranted. The Proponent must also provide a copy of the assessment to the owner(s) of the residence at the same time it is submitted to the Secretary.
 6. Note: 2 to condition 3 of this Schedule applies to acquisition under this condition.
- At any stage of the Project, except for Receivers 44, 48 and 90, the Proponent must ensure that operational noise generated by the Project does not exceed the criteria in Table 4-2 at any residence on privately-owned land.

Table 4-2: Noise impact assessment criteria dB(A) – maximum any stage of project life

| Location/Property ID | Noise impact assessment criteria | | | |
|--------------------------------------|----------------------------------|--------------------------------------|------------------------------------|----------------------|
| | Day L _{Aeq} (15 min) | Evening L _{Aeq} (15 min) | Night L _{Aeq} (15 min) | Night LA1 (1 min) |
| 158 | 35 | 36 | 36 | 45 |
| All other privately owned residences | 35 | 35 | 35 | 45 |

Notes:

Noise generated by the project is to be measured in accordance with the relevant requirements, and exemptions (including certain meteorological conditions), of the NSW Noise Policy for Industry (EPA, 2017).

- If the owner(s) of a privately-owned residence, have reason to believe that operational noise from the Project is causing the criteria in Table 4-2 to be exceeded at the residence, the owner(s) can request an independent noise impact assessment for the residence. The request must be made in writing to the Secretary. If the Secretary considers that a noise impact assessment is warranted, then the Proponent must commission the assessment.
- Except for the noise affected land identified in condition 3 as being within the Project's 35 dB(A) contour, the Proponent must ensure that the operational noise generated by the project combined with the noise generated by other mines does not exceed the criteria in Table 4-3 at any residence on privately-owned land.

Table 4-3: Cumulative noise impact criteria dB(A) LAeq (period)

| Location | Noise impact assessment criteria | | |
|--------------------------------|----------------------------------|-----------------------|---------------------|
| | Day LAeq (period) | Evening LAeq (period) | Night LAeq (period) |
| All privately owned residences | 40 | 40 | 40 |

Notes:

1. Cumulative noise is to be measured in accordance with the relevant requirements, and exemptions (including certain meteorological conditions), of the NSW Noise Policy for Industry (EPA 2017)

- If the owner(s) of a privately-owned residence reasonably believes that the noise limits in Table 4-3 are being exceeded at the residence and that the exceedance is caused by operational noise from the project and one or more other mines (including use of private haul roads or rail spurs), the owner(s) can request an independent noise impact assessment for the residence. The request must be made in writing to the Secretary. If the Secretary considers that a noise impact assessment is warranted, then the Proponent must commission the assessment.

4.2 Operational noise criteria

As specified in Schedule 3, Condition 5 of the Project Approval, the operational noise criteria applicable to all privately-owned residences on land not identified in Schedule 3, Conditions 3 and 4 of the Project Approval, are set out in Table 4-4. The criteria apply to all operational noise generated by the BCM, including on-site noise sources such as mining and coal processing equipment, train loading equipment and train movements on the private rail spur excluding the rail spur.

BCOPL will implement various management measures with the aim of controlling noise generated by BCM to not exceed the criteria in Table 4-4 at any privately-owned residences. Management measures are outlined in Section 5.0.

Table 4-4: Operational noise impact assessment criteria dB(A) - maximum at any stage of project life

| Location Property/ ID | Day | Evening | Night | |
|--------------------------------|--------------|--------------|--------------|------------|
| | LAeq(15 min) | LAeq(15 min) | LAeq(15 min) | LA1(1 min) |
| 158 | 35 | 36 | 36 | 45 |
| All other privately owned land | 35 | 35 | 35 | 45 |

Condition 6 of Schedule 3 (produced in full in Appendix B, Table B-1 of this NMP) allows for noise mitigation or property acquisition if an independent noise assessment determines that the noise generated by the Project causes sustained exceedances, or is likely to cause sustained exceedances, of the noise criteria in Table 4-5. The various scenarios under which BCOPL will be required to mitigate or acquire landholder properties are described in detail in Section 5.3.

4.3 Cumulative noise criteria

BCOPL will implement all reasonable and feasible measures so that the noise generated by the BCM combined with the noise generated by other mines in the area does not exceed the criterion, as outlined in Schedule 3, Condition 7 of the Project Approval and detailed in Table 4-5, at any privately-owned residence.

Table 4-5: Cumulative noise criteria dB(A) LAeq(Period)

| Location | Day | Evening | Night |
|--------------------------|-----|---------|-------|
| All privately owned land | 40 | 40 | 40 |

Condition 8 of Schedule 3 (produced in full in Appendix B, Table B-1 of this NMP) allows for noise mitigation or property acquisition if an independent noise survey shows that the cumulative noise generated by the Project and others mine(s) causes sustained exceedances, or is likely to cause sustained exceedances, of the cumulative noise criterion in Table 4-5. Mitigation is described further in Table 5-2 and Section 5.4. Landholder property acquisition scenarios for BCM are described in Appendix C. Cumulative noise mitigation and acquisition is discussed further in the BTM Complex NMS (refer to Appendix E).

4.4 Standards and guidelines

The Project Approval references the *Noise Policy for Industry* (NPfI) (EPA, 2017) as the applicable policy for managing noise at BCM. Also applicable are:

- Approved methods for the measurement and analysis of environmental noise in NSW (Approved Methods) (EPA, 2022); and
- Australian Standard AS1055 Acoustics, Description and Measurement of Environmental Noise (AS1055) (Standards Australia, 2018).

5.0 NOISE MANAGEMENT MEASURES

The following noise control measures will be considered, and where necessary implemented, by BCOPL to minimise the potential for noise to exceed Project Approval noise specific criteria.

5.1 Approved hours of work

Project operational activities will be undertaken in accordance with the hours specified under Project Approval Schedule 2, Condition 6 which states that the Proponent may undertake mining operations 24 hours a day, 7 days a week.

5.2 Noise mitigation measures

BCOPL will apply the noise mitigation measures during operational activities at BCM as outlined in Table 5-2. The noise mitigation measures in Table 5-2 consider the operating conditions in Schedule 3, Condition 12 of the Project Approval including measures to minimise operational, low frequency and rail noise. BCOPL will endeavour to achieve the long-term intrusive noise goals (refer to Project Approval-Table 5) through the implementation of these noise mitigations where they are considered reasonable and feasible.

Table 5-1: Cumulative noise criteria dB(A) LAeq(Period)

| Activity/ Risk | Noise mitigation measures | | | | | | | | |
|---|---|-------------|-------------|----------------------------|----------|---|----------|---|----------|
| Procurement | <ul style="list-style-type: none"> All new trucks, dozers, drills and excavators purchased for use on site will be commissioned as noise suppressed (or attenuated) units | | | | | | | | |
| | <ul style="list-style-type: none"> Select vehicle reverse alarms, horns, start alarms and other audible warning devices that produce the lowest best available technology economically achievable noise levels consistent with relevant safety standards | | | | | | | | |
| Haulage | <ul style="list-style-type: none"> Where speed limits are not sign posted the speed limits in the below table will be used to minimise noise <table border="1" data-bbox="429 1352 1366 1646"> <thead> <tr> <th>Area</th> <th>Speed limit</th> </tr> </thead> <tbody> <tr> <td>Mining area and haul roads</td> <td>60 km/hr</td> </tr> <tr> <td>Mine infrastructure area unsealed roads</td> <td>40 km/hr</td> </tr> <tr> <td>Around workshop, product stockpiles and park-up areas</td> <td>20 km/hr</td> </tr> </tbody> </table> | Area | Speed limit | Mining area and haul roads | 60 km/hr | Mine infrastructure area unsealed roads | 40 km/hr | Around workshop, product stockpiles and park-up areas | 20 km/hr |
| | Area | Speed limit | | | | | | | |
| Mining area and haul roads | 60 km/hr | | | | | | | | |
| Mine infrastructure area unsealed roads | 40 km/hr | | | | | | | | |
| Around workshop, product stockpiles and park-up areas | 20 km/hr | | | | | | | | |
| | <p><i>Note: speed limits may be varied in response to adverse weather conditions, air quality monitoring results or other factors.</i></p> | | | | | | | | |
| Coal handling | <ul style="list-style-type: none"> Using low noise motors Using vibration absorbing pads on supporting springs for vibrating screens | | | | | | | | |
| | <ul style="list-style-type: none"> Limit operation of mobile coal handling equipment considering speed of movement and location of operation | | | | | | | | |

| Activity/ Risk | Noise mitigation measures |
|--------------------------------------|---|
| | <ul style="list-style-type: none"> Belt surfaces are to have no ripples or imperfections |
| Loading trains and private spur line | <ul style="list-style-type: none"> Rail lines are to be thermite welded Boggabri Rail Spur Line is to be accessed by locomotives that are approved to operate on the NSW rail network in accordance with the noise limits in ARTC's EPL (No. 3142) Any new rail rolling stock manufactured specifically for BCM is to be designed and constructed to minimise noise Where required rolling stock is designed and constructed to minimise noise Following commissioning of the Boggabri Rail Spur Line conduct train speed noise testing to optimise train speed for minimum noise and undertake targeted noise monitoring to determine the accuracy of predicted acoustic impacts and effectiveness of any noise reduction measures (including monitoring during adverse inversion conditions) |
| Open cut mining | <ul style="list-style-type: none"> Where required in response to real-time monitoring, direct the overburden haul trucks to lower, more shielded emplacement areas during noise enhancing weather conditions (generally at evening and night during Class G inversions) and deploy attenuated plant in locations relevant to sensitive receivers Where required in response to real-time monitoring, placing overburden in strategic locations to provide additional screening between noise sources on the site and nearby noise sensitive areas Consider constructing noise bunds along the edge of any exposed ramps at exposed elevations on the overburden emplacement area, where mine noise levels exceed Project Approval criteria Limit operation of track dozers and haulage trucks considering speed of movement and location of operation Use predictive met forecasting and real time noise monitoring to guide the day to day planning of mining operations Equipment found to have defects that lead to elevated noise emissions will not be returned to operations until repaired |
| Maintenance | <ul style="list-style-type: none"> Maintain plant and equipment regularly and in accordance with manufacturer's requirements Where reasonable and feasible, improve existing noise suppression equipment as best available technology economically achievable become available |

5.3 Risk response procedure and matrix

This section describes how the risk of noise level exceedances with the Project Approval noise criteria (refer to Table 4-4) is to be managed.

Following installation of the cumulative real time noise monitoring system (as outlined in the BTM Complex NMS), a series of trigger levels have been set and investigation and high-level criteria have been confirmed with the integrated software. Table 5-2 provides an example of the risk response matrix implemented at BCM to manage the risk of noise exceedance levels from mining activities. The trigger action response matrix will be further refined as the cumulative network continues to be implemented, tested and improved. The timing of the above is outlined in the BTM Complex NMS.

Noise monitoring levels from real time monitor(s) (refer to Appendix A) will be communicated to environmental personnel and the Open Cut Examiner (OCE) via SMS, email and/or other systems integrated into operating processes (depending on needs).

The level of the 'noise alert' will be determined in accordance with Trigger Levels in Table 5-3. The table outlines the action required once the alert is issued.

Once either an 'investigation' or 'action' noise alert is triggered, the procedures outlined in the risk response matrix provided in Table 5-2 will be considered. For noise related complaints or exceedance of a Project Approval criterion identified during attended noise monitoring, the risk response matrix in Table 5-3 will be considered.

The risk response matrix will be refined as the cumulative network is progressively implemented, tested and improved.

BCOPL will review the trigger levels, and update and refine them as necessary following a review of the data and calibration of the system. This review will be undertaken annually as part of development of the Annual Review. If the trigger levels are not appropriate to BCM's operations, they will be revised. Different trigger levels may be set for each monitoring location within the noise monitoring network, depending on the noise criterion for the nearest receiver to the monitor. Where required, trigger levels will be assessed as part of any review of the NMP.

Table 5-2: Real time or predictive risk response matrix

| | | Noise risk level | |
|--------------------------|---|--|---|
| | | Level 1 – Investigate & prepare | Level 2 – Action required |
| Trigger | <ul style="list-style-type: none"> 4 consecutive measurement intervals with an estimated Mining L_{Aeq} greater than 35 dB at any real time monitor. 3 consecutive measurements with stability class G atmospheric condition | <ul style="list-style-type: none"> 4 consecutive measurement intervals with an estimated Mining L_{Aeq} greater than 37 dB at any real time monitor. | |
| Noise alert level | <ul style="list-style-type: none"> 'Investigation' noise alert received via SMS or email to supervisors. | <ul style="list-style-type: none"> 'Action' noise alert level received via SMS or email to supervisors. | |
| | | Investigation responses | Action responses, implement until 'Noise Risk Level' reduced |
| Actions | <ul style="list-style-type: none"> Review Boggabri Noise Monitor Dashboard page. Listen to audio recording and determine likely noise source. Review meteorological data to determine whether increasing noise levels may be due to wind (>3 m/s) or extreme temperature inversions (stability class G). If noise attributed to BCM, the relevant operations are to be notified. If the noise is determined to be from sources other than BCM, the BCOPL Environment Superintendent will be informed. Mine planners review predictive models and consider optimal plan for adverse conditions. | <ul style="list-style-type: none"> Review Boggabri Noise Monitor Dashboard page. Listen to audio recording and determine likely noise source. Review meteorological data to determine whether increasing noise levels may be due to wind (>3 m/s) or temperature inversions (stability class G). Investigate the source of the increased noise levels and inform the BCOPL Environmental Superintendent. If noise is attributed to BCM, exercise discretion based on operational requirements and where appropriate modify relevant mine operations, including potentially modifying or ceasing the identified activity if noise is non-compliant (e.g. adjust shift plans, reduce haul truck speeds during evening and night periods, shutting down equipment). Record the investigation by following the BCOPL incident management procedure. Any actions implemented will be recorded. | |

Table 5-3: Risk response matrix attend monitoring

| Risk Response Matrix Attend Monitoring | |
|--|---|
| Noise complaint received | <ul style="list-style-type: none"> • Document complaint as per the BCOPL incident management procedure and inform the BCOPL Environment Superintendent. • If complainant is not near a noise monitor, liaise with complainant to deploy a real time noise monitor or arrange attended monitoring at a mutually agreeable time. • Listen to real time audio recording or review attended monitoring results to determine likely noise source. • Investigation into the increased noise levels will happen if the noise levels exceed the Project Approval criterion (refer to Table 4-4). • If the noise is attributed to BCM and exceeds a Project Approval criterion, exercise discretion based on operational requirements and where appropriate modify mine operations. • If required, individual mine noise mitigation actions will be instigated upon exceedance of any Project Approval criterion. • If the noise is determined to be from a source other than BCM, record the investigation by following the BCOPL incident management procedure and inform the BCOPL Environment Superintendent of the investigation outcomes. |
| Exceedance of Project Approval criterion during attended noise monitoring (refer to section 6.1) | <ul style="list-style-type: none"> • If noise is attributed to BCM develop noise mitigation actions to reduce noise levels. • As soon as practical after obtaining monitoring results showing an exceedance of a Project Approval noise criterion, the Proponent shall notify the affected landowner(s) in writing of the exceedance and provide monitoring results to each of these parties until site noise level complies with the relevant criterion. • Document incident, investigation, and outcomes in accordance with BCOPL incident management procedure. • If noise is confirmed to be from another BTM Complex Mine, consult with that mine operator as outlined in the BTM Complex NMS. |

5.4 Property mitigation and acquisition

The Project Approval stipulates that private landholders can request an independent noise impact assessment be undertaken at their property if they suspect mining noise is (a) exceeding approved criteria in Table 2 of the Project Approval by more than 3 dB, for receivers inside the 35 dB(A) contour, or (b) exceeding approved criteria in Table 3 of the Project Approval, for receivers outside the 35 dB(A) contour. If an assessment is required, it will be undertaken to determine whether noise levels are above or below approved limits and identify the source of noise impacts. The allowable noise levels will be dependent on the location of the landholder's property and whether the impact is solely caused by BCOPL or whether it is cumulative. The outcomes of the assessment will then be used as a basis for subsequent landholder negotiations for noise mitigation or property acquisition.

As described in the Project Approval, mitigation options may include the installation of double glazing, insulation and air conditioning at the landholder's residence. Any mitigation will be undertaken in consultation with the landholder and be reasonable, feasible and directed towards reducing the noise impacts of the BCM or the BTM Complex upon the residence.

If mitigation is not agreed upon within three months of the landholder's written request, then BCOPL may refer the matter to the Secretary for resolution.

If property acquisition is required, BCOPL will undertake negotiations with the landholder in accordance with Conditions 8 and 9 of Schedule 4 of the Project Approval (reproduced in Appendix B).

Process flow diagrams outlining the key steps that will be undertaken for noise assessment and potential acquisition under the various landholder impact scenarios are provided in Appendix C. It is expected that the scenarios outlined in Appendix C would only be implemented following investigation of practical and feasible mitigation measures, as discussed in this section and Table 5-2.

5.5 Cumulative noise management for the BTM Complex

The strategy and actions for the management of cumulative noise impacts associated with the BTM Complex are described in the BTM Complex NMS. The BTM Complex NMS outlines the basic system architecture for cumulative noise impact management, which includes predictive noise modelling and predictive meteorology. The system within the BTM Complex NMS assists short-term mine planning by allowing various mining scenarios to be run and evaluated for predicted meteorological conditions.

6.0 MONITORING

Attended noise monitoring has been conducted since project inception of BCM at or near the locations listed in Table 6-1. Attended noise monitoring will be undertaken as outlined in Section 6.1 at privately owned residences to assess BCM's noise levels against the noise impact criterion. Real-time noise monitoring will be undertaken as described in Section 6.2.

Table 6-1: BCM historical noise monitoring locations

| Receiver no. | Landowner/Property name | Type |
|--------------------|-------------------------|----------|
| 67/68 ¹ | Goonbri | Attended |
| N/A ¹ | Greenhills | Attended |
| N/A ¹ | Bolloi Creek/Templemore | Attended |
| 54 ¹ | Tarrowonga | Attended |
| 23/27 ¹ | Cooboobindi | Attended |
| N/A ² | Hazeldene | Attended |
| N/A ² | Roma | Attended |

¹ Property owned by another mining company and not allocated receiver number in Boggabri Mine EA.

² No assigned receiver number in the EA.

6.1 Attended monitoring

Attended noise monitoring was conducted on a quarterly basis from inception of the BCM to the end of 2015. Continued attended monitoring to assess ongoing compliance with individual and cumulative noise criteria at privately owned properties is now conducted at monthly intervals during night periods.

The attended monitoring locations outside the 35 dB(A) contour are listed in Table 6-2 and illustrated in Appendix A. Additional one-off or occasional monitoring may also be undertaken at other surrounding locations as required utilising either a mobile real-time monitor or by commissioning an independent acoustic consultant to undertake attended monitoring.

Table 6-2: BCM historical noise monitoring locations

| Location no. | Landowner/Property name | Type |
|--------------|-------------------------|----------|
| N2 | Sylvania | Attended |
| N3 | Picton | Attended |
| N4 | Barbers Lagoon | Attended |

Attended noise monitoring will be conducted as follows:

- All noise investigations will be done in accordance with the NPfl, the Approved Methods, and AS1055.
- Noise levels will be measured in one-third octave bands using an instrument with IEC Type 1 characteristics as defined in AS 1259-1990 “Sound Level Meters”. The instrument will have current calibration as per manufacturer’s instructions and field calibration will be confirmed before and after measurements with a sound level calibrator.
- The instrument will be set to A-weighting, “fast” response and measurements of $L_{Aeq(15 \text{ minute})}$ will be taken at each location in Table 6-2.
- Attended surveys will occur at each location in Table 6-2 at a frequency specified in condition M8.1 of EPL 12407 as follows:
 - monthly,
 - During the night period as defined in the NPfl for a minimum of 15 minutes.
 - Field notes will be taken during each measurement recording the time and duration of noise events, noise sources, instantaneous noise levels and frequency range of identified site noise sources.
 - Extraneous noise sources will be filtered from the measured signal using appropriate methods such as, employing an appropriate low pass cut-off, pausing unwanted noise or similar methods and the $L_{Aeq(15 \text{ minute})}$ and L_{Amax} (as an estimate of the $LA1(1\text{-minute})$ sleep disturbance descriptor) levels attributable to BCM activities will be identified and compared with the relevant criterion.
 - Details regarding plant configuration, survey interval, weather conditions, extraneous noise sources, monitoring locations and times of measurement will be recorded for inclusion in the noise monitoring report.

The selection of monitoring locations has been undertaken in consultation with relevant agencies. Compliance against the noise criteria within the Project Approval will be assessed using the monitoring locations identified in Table 6-2 irrespective of land ownership or distance from dwellings.

6.2 Real-time monitoring

A cumulative real-time noise monitoring system has been developed by the BTM Complex mines to assist in the management of noise emissions. This system is described in detail in the BTM Complex NMS.

The real-time network provides data as required for the noise alerts detailed in Table 5-2.

Boggabri Coal has installed four real-time noise monitors which are used as management tools to assist operations. The locations are as follows:

- one real-time monitor at the Wilberoi East property*;
- one real-time monitor at the Glenhope property*;
- one real-time noise monitor at the ‘Goonbri’ property**; and
- one real-time noise monitor at the ‘Greenhills’ property**.
 - *Note: Wilberoi East and Glenhope are properties inside the 35 dB(A) life of mine contour.
 - **Note: ‘Goonbri’ and ‘Greenhills’ are mine-owned properties.

Due to the need for cooperation between the different mines of the BTM Complex with respect to monitoring, the implementation of monitoring programs will be undertaken in stages, as the needs for all parties are fully determined. Schedule 2, Condition 21 of the Project Approval, allows for the staged submission of strategies, plans and programs required under the Project Approval. Noise models developed as part of the cumulative system will be reviewed where required, as detailed in the BTM Complex NMS.

6.3 Cumulative noise monitoring

The real-time network discussed in Section 6.2 forms part of the cumulative noise monitoring network, which is detailed in the BTM Complex NMS. Noise monitoring sufficient to cover all affected receivers will be conducted by the individual mines under their respective NMP's, with each mine reporting on their individual noise levels and cumulative mining noise levels.

6.4 Meteorological monitoring

Condition 14 of the Project Approval states the following:

Where conditions in this approval refer to measurement of noise within the context of the NSW Industrial Noise Policy the inversion class to be applied to the project is Class G.

However, the Proponent may undertake an investigation to determine whether a proposal for change in this classification could be considered for approval by the Secretary. Any such investigation must be conducted in consultation with the EPA and be conducted by a suitably qualified person whose appointment has been endorsed by the EPA and approved by the Secretary. The report and recommendation must be submitted to the EPA for endorsement prior to submission to the Secretary. If the Secretary is satisfied that the recommendation is reasonable, then the Secretary may amend the inversion class applying to the project under this approval.

BCOPL operates a real time meteorological station and has installed a 60 m tower that measures temperature at (at least) two altitudes with minimum 50 m vertical separation, as recommended in Appendix D of the NSW Industrial Noise Policy, 2000 (INP). The tower provides accurate measured real-time temperature inversion data without the need to resort to unreliable methods such as extrapolation from sensors at 2 m and 10 m above the ground or analysis of sigma-theta data.

Class G inversions are defined in the INP as having a temperature gradient of 8°C/100 m, which will be adopted as the upper level of applicability of noise criteria, unless the data suggest a more appropriate value. In that case, the EPA will be consulted as directed in Condition 14.

Real-time access to meteorological data via the meteorological station will allow the implementation of a noise management system that applies mitigation measures.

A predictive forecast meteorology system has been implemented based on the *Weather Research & Forecasting* (WRF) model, specifically for the BTM Complex, and a website was developed to make data available for each of the mine sites, with half hourly forecasts up to 48 hours in advance. This system downloads global meteorological data and forecasts on a daily basis then processes and runs the WRF model to produce the information required for input into a real-time 3D dispersion model.

As with any predictive forecast, confidence reduces with longer predictions, however the half hourly 48-hour forecasts will provide useful planning information for operations. The forecasts for the next 24-hour and 12-hour periods will provide more confidence in predictions for the day ahead and how weather may affect operations.

6.5 Mobile plant monitoring

In accordance with Conditions 9 and 10 of Schedule 3, equipment and noise control measures used at BCM will have their sound power levels quantified once every three years. BCOPL will test a third of the equipment each year to achieve a representative sample.

This annual monitoring program of attenuated plant will aim to assess the effectiveness of the attenuation. Equipment and noise control measures will be maintained to minimise site noise emissions.

The results of the monitoring and attenuation program will be included in the BCOPL Annual Review, which will be made publicly available on the BCM website ([Idemitsu Approvals, Plans & Reports - Idemitsu](#)).

6.6 Noise model validation

In accordance with Schedule 3, Condition 13 (f) of the Project Approval, BCOPL will complete an annual validation of the noise model for the Project. This will involve reviewing the attended noise monitoring data collected over the preceding 12-months and comparing it with the noise level predictions made in the 2010 EA for the equivalent year of operations. Findings of the noise model validation exercise will be reported in the Annual Review.

7.0 REPORTING

Various monitoring reports will be prepared at regular intervals for the management of issues associated with noise management at BCOPL. These reports and reporting periods are discussed in detail in the following sections.

7.1 Real-time monitoring reports

In accordance with Schedule 5, Condition 13 of the Project Approval, BCOPL is required to publish validated real-time noise monitoring data on the BCOPL website (<https://idemitsu.com.au/operations/boggabri-coal/approvals-plans-and-reports/operational-information/>). The published monitoring data will:

- be presented in a clearly understandable form;
- include identification of mine operational responses to monitoring data and weather forecasts; and
- include provision for on-line input/response by members of the community and real-time engagement with regionally based regulatory compliance staff.

Validated/ratified data will be provided quarterly and preliminary (i.e not validated) data can be provided daily.

7.2 Attended monitoring reporting

A suitably qualified acoustic consultant will provide reports of attended monitoring following each monitoring survey and this reporting will include:

- monitoring aims;
- monitoring methodology;
- a quantitative assessment of the acoustic environment; and
- results showing the performance of the development in relation to all relevant criteria.

Monthly monitoring reports will be made publicly available on the BCM website (Idemitsu Approvals, Plans & Reports - Idemitsu) and submitted to the EPA in accordance with EPL condition R4.

7.3 Annual Review

The Annual Review summarises the environmental performance of the mine for the previous calendar year. In accordance with BCOPL's mining lease (CL368) and Schedule 5, condition 4 of the Project Approval, the Annual Review will use the relevant monitoring described in Section 6.0 of this plan to report on the result of noise monitoring.

As outlined in Project Approval, Schedule 3, Condition 13, f) v), the attended monitoring will be used to evaluate and report on the effectiveness of the noise management system at BCM in the Annual Review for the previous year. The Annual Review will be made publicly available on the Boggabri Coal Mine website ([Idemitsu Approvals, Plans & Reports - Idemitsu](#)).

7.4 Independent environmental audit

In accordance with Schedule 5, condition 10 of the Project Approval an independent audit will be conducted every 3 years, unless the Secretary directs otherwise, that will:

- assess whether the Proponent is implementing best noise, blasting and air quality management practice;
- investigate and report on the measures taken to minimise the noise impacts of the project during meteorological conditions when the noise limits in this approval do not apply, including:
 - the effectiveness of these measures in maintaining noise impacts within the relevant noise criteria in this approval and/or the limits in the relevant EPL; and
 - any additional measures available to mitigate noise impacts under such meteorological conditions

7.5 Community consultation committee reporting

- During meetings with CCC, members will be briefed on relevant issues arising from noise monitoring and where required be provided with a summary of any noise reports.
- Minutes of all CCC meetings will be made publicly available on the BCM website ([Idemitsu Community Consultative Committee - Idemitsu](#)).

8.0 INCIDENT AND COMPLAINT MANAGEMENT

All environmental incidents, complaints, non-conformance or exceedance of noise specific criteria identified by monitoring or reporting will be managed as per the requirements of the BCM incident management process. All environment incidents will be reported to the BCOPL Environmental Manager using the BCOPL Incident Report Form. Following an incident, the BCOPL Environmental Manager is responsible for assigning any corrective or preventative actions, including reporting these to the EPA as required by EPL condition R4.1 b).

In accordance with Schedule 5, Conditions 2 and 5 of the Project Approval, and the relevant conditions of the EPL, BCOPL will provide verbal and written notification to relevant agencies of any incident that has caused, or threatens to cause, material harm to the environment to the relevant regulatory authorities. The process for notification and reporting in accordance with these requirements is outlined in the BCOPL Pollution Incident Response Management Plan (PIRMP).

9.0 NMP REVIEW

Review of the NMP will be undertaken by BCOPL in accordance schedule 5 condition 5 of the Project Approval within 3 months of the submitting the following:

- Annual Review under condition 4 of the Project Approval;
- incident report under condition 8 of the Project Approval;
- audit under condition 10 of the Project Approval; and
- a modification to the Project Approval.

Where this review results in revisions to the NMP, then within 4 weeks of the completion of the revision, unless the Secretary agrees otherwise, the revised document will be submitted to the Secretary for approval.

10.0 ROLES AND RESPONSIBILITIES

Compliance with this NMP is the responsibility of all BCOPL employees and contractors. The key roles and responsibilities for noise management at the BCM are outlined in Table 10-1.

Table 10-1: Roles and responsibilities for implementation of this plan

| Role | Responsibility |
|--|--|
| BCOPL General Manager Operations | <ul style="list-style-type: none"> • Providing sufficient resources for the effective implementation of this NMP. • If required negotiate with affected parties to resolve ongoing complaints. |
| BCOPL Operations Manager | <ul style="list-style-type: none"> • Mining and noise mitigation measures are to be undertaken in accordance with this NMP. • Providing sufficient resources for the effective implementation of this NMP. |
| BCOPL CHPP Manager | <ul style="list-style-type: none"> • Mining and noise mitigation measures are to be undertaken in accordance with this NMP. • Providing sufficient resources for the effective implementation of this NMP. |
| BCOPL Health, Safety, Environment and Community (HSEC) Manager | <ul style="list-style-type: none"> • Mining and noise mitigation measures are to be undertaken in accordance with this NMP. • Providing sufficient resources for the effective implementation of this NMP. |
| BCOPL Environment Superintendent | <ul style="list-style-type: none"> • Noise monitoring is undertaken according to the requirements of this management plan. • Responding to community complaints. • Liaising with regulatory authorities regarding noise management. • Schedule additional noise monitoring at the site of a sensitive receptor if required. • Exceedances are reported to the relevant regulatory authority in accordance with this NMP. • Maintaining the site's noise monitoring system. • Coordinate any required noise mitigation measures outlined in this NMP. • Review and revise this management plan where required. • Make employees and contractors aware of their obligations under this NMP. • Implementing noise management measures in accordance with this NMP. • Developing and implementing specific procedures for the employees and subcontractors under their responsibility to facilitate compliance with this NMP. |
| All BCOPL employees and contractors | <ul style="list-style-type: none"> • Undertaking activities, as required, in accordance with this NMP under instruction from their supervisor. • Informing the either Supervisor or the BCOPL Environment Superintendent of any noise related issues as they arise. |

11.0 REFERENCES

11.1 Internal

- BCOP. *Environmental Incident Response Management Plan*.

11.2 External

- Australian and New Zealand Environment Council (ANZEC) (1990). *Technical basis for guidelines to minimise annoyance due to blasting overpressure and ground vibration*.
- DEC (2006). *Assessing Vibration – A Technical Guideline*.
- EPA (2000). *NSW Industrial Noise Policy (INP)*.
- EPA (2017). *Noise Policy for Industry (NPfI)*.
- EPA (2022). *Approved methods for the measurement and analysis of environmental noise in NSWNSW (Approved Methods)*.
- Global Acoustics (2016). *Sound Power Specification for Boggabri Coal Mine*.
- Hansen Bailey (2010). *Continuation of Boggabri Coal Mine Environmental Assessment. Singleton, NSW*.
- Hansen Bailey (2011). *Continuation of Boggabri Coal Mine Environmental Assessment – Residual Matters Report. Singleton, NSW*.

12.0 ABBREVIATIONS

| Abbreviation | Definition |
|-------------------------|--|
| ARTC | Australian Rail Track Corporation |
| BCM | Boggabri Coal Mine |
| BCOPL | Boggabri Coal Operations Pty Limited |
| BCT | Boggabri Coal Terminal |
| BTM Complex | Boggabri-Tarrawonga-Maules Creek Complex |
| CCC | Community Consultative Committee |
| CHPP | Coal Handling and Preparation Plant |
| dB(A) | Noise level measurement units are decibels (dB). The “A” weighting scale is used to approximate how humans hear noise. |
| DCCEEW | Department of Climate Change, Energy, the Environment and Water |
| DPE | NSW Department of Planning and Environment |
| DPHI | NSW Department of Planning, Housing and Infrastructure |
| EA | Environmental Assessment |
| EPA | NSW Environment Protection Authority |
| EP&A Act | Environmental Planning and Assessment Act 1979 (NSW) |
| EPL | Environment Protection Licence under the POEO Act |
| INP | NSW Industrial Noise Policy 2000 |
| Km | Kilometer |
| LA _{1,1minute} | The A weighted noise level which is exceeded for 1% of the specified time period of 1 minute |
| LA _{eq} | The energy average A weighted noise level |
| MCC | Maules Creek Coal Mine |
| MOP | Mining Operations Plan |
| Mt | Million Tonnes |
| Mtpa | Million Tonnes Per Annum |
| NMP | Noise Management Plan |

| Abbreviation | Definition |
|-------------------------------|---|
| NMS | Noise Management Strategy |
| NPfi | NSW Noise Policy for Industry 2017 |
| OCE | Open Cut Examiner |
| OEH | NSW Office of Environment and Heritage |
| PAC | NSW Planning Assessment Commission |
| Part 3A | Part 3A of the EP&A Act |
| POEO Act | Protection of the Environment Operations Act 1997 (NSW) |
| L _w L _w | Sound Power Level |
| ROM | Run of Mine |

Appendix A

Noise Monitoring Location Plan

Appendix B

Statutory Noise Requirements

B.1 Statutory requirements for noise management

Enter text/appendix

Requirements of approvals, licences and leases associated with the management of noise impacts from the BCM under the following statutory instruments have been considered during the development of this NMP:

- *Environmental Planning and Assessment Act 1979*;
- *Mining Act 1992*;
- *Protection of the Environment Operations Act 1997*; and
- additional standards and guidelines.

B.1.1 *Environmental Planning and Assessment Act 1979*

In addition to the requirement for a NMP in Schedule 3, Condition 13, the Project Approval conditions listed in Table B-1 relate to the management of ongoing operational noise at the BCM.

Table B-1: Project Approval conditions

| Applicable condition | Requirement | NMP Reference |
|---|---|-----------------------------------|
| Schedule 3 Condition 3: Operational Noise - Noise Affected Land | <p>The owners of Receivers 44, 48 and 90 (see locations in the figure in Appendix 4) can make a written request to the Proponent for one of the following:</p> <ol style="list-style-type: none"> mitigation (such as double glazing, insulation and air conditioning) at the residence in consultation with the owner(s). These measures must be reasonable and feasible and directed towards reducing the noise impacts of the project upon the residence. If within 3 months of receiving this request from the owner(s), the Proponent and owner(s) cannot agree on the measures to be implemented, or there is a dispute about the implementation of these measures then either party may refer the matter to the Secretary for resolution; or acquisition of the residence and the land in accordance with the procedures in conditions 8-9 of Schedule 4. <p>Upon receiving a written request from the owner(s), the proponent must undertake whichever option has been requested by the owner(s).</p> <p>However, this condition does not apply if the Applicant has a written agreement with the owner(s) of the relevant residence to generate higher noise levels, and the Applicant has advised the Department in writing of the terms of this agreement.</p> <p><i>Notes:</i></p> <p><i>For the purposes of this condition a privately-owned residence is defined as a residence not owned by a mining company that: is regularly occupied; or is a proposed residence for which a development application has been lodged with the relevant authority prior to the date of this approval.</i></p> <p><i>For the purposes of acquisition under this condition, parcels of land that are in close proximity and operated as a single agricultural enterprise should be considered as part of the land to be acquired. Where the</i></p> | Sections 4.1 and Appendix C |

| Applicable condition | Requirement | NMP Reference |
|--|---|------------------------------------|
| | <p><i>Proponent and the owner(s) cannot agree on whether non-contiguous parcels of land should be included, either party may refer the matter to the Secretary for resolution. The Secretary's decision as to the lands to be included for acquisition under procedures in conditions 8 and 9 and schedule 4 must be final.</i></p> | |
| <p>Schedule 3 Condition 4: Operational Noise - Noise Affected Land</p> | <p>Where the owner(s) of a residence included in condition 3 of this schedule have opted for an agreement to either generate higher noise levels or mitigation under condition 3(a), and the owner(s) have reason to believe that the noise impacts at the residence are more than 3 dB(A) above the predicted noise levels for that residence (see Table 2), the owner(s) can request an independent noise impact assessment for the residence. The request must be made in writing to the Secretary. If the Secretary considers that a noise impact assessment is warranted, then the proponent must commission the assessment.</p> <p>If the noise impact assessment determines that the noise generated by the project causes sustained exceedances, or is likely to cause sustained exceedances, of the predicted noise levels by more than 3 dB(A) the owner(s) may require the proponent to acquire the residence and the land in accordance with the procedures in conditions 8-9 of Schedule 4.[Table omitted – see Table 4-1]</p> | <p>Sections 4.1 and Appendix C</p> |
| <p>Schedule 3 Condition 5: Operational Noise - Noise Affected Land</p> | <p>At any stage of the project, except for Receivers 44, 48 and 90, the Proponent must ensure that operational noise generated by the project does not exceed the criteria in Table 3 at any residence on privately-owned land.</p> <p>[Table omitted - see Table 4-4]</p> <p><i>Notes:</i></p> <p><i>Noise generated by the project is to be measured in accordance with the relevant requirements and exemptions (including certain meteorological conditions) of the NSW Noise Policy for Industry (EPA, 2017).</i></p> <p><i>However, these noise criteria do not apply if the Applicant has a written agreement with the owner(s) of the relevant residence to generate higher noise levels, and the Applicant has advised the Department in writing of the terms of this agreement.</i></p> | <p>Sections 4.2 and Appendix C</p> |
| <p>Schedule 3 Condition 6: Operational Noise - Noise Affected Land</p> | <p>If the owner(s) of a privately owned residence, have reason to believe that operational noise from the project is causing the criteria in Table 3 to be exceeded at the residence, the owner(s) can request an independent noise impact assessment for the residence. The request must be made in writing to the Secretary. If the Secretary considers that a noise impact assessment is warranted, then the proponent must commission the assessment.</p> <p>If the noise impact assessment determines that the noise generated by the project causes sustained exceedances, or is likely to cause sustained exceedances, of the criteria in Table 3 the owner(s) can make a written request to the Proponent for one of the following:</p> | <p>Sections 4.2 and Appendix C</p> |

| Applicable condition | Requirement | NMP Reference |
|--|---|--|
| | <p>a. mitigation (such as double glazing, insulation and air conditioning) at the residence in consultation with the owner(s). These measures must be reasonable and feasible and directed towards reducing the noise impacts of the project upon the residence. If within 3 months of receiving this request from the owner(s), the Proponent and owner(s) cannot agree on the measures to be implemented, or there is a dispute about the implementation of these measures then either party may refer the matter to the Secretary for resolution; or</p> <p>b. acquisition of the residence and the land in accordance with the procedures in conditions 8-9 of Schedule 4.</p> <p>Upon receiving a written request from the owner(s), the proponent must undertake whichever option has been requested by the owner(s).</p> <p>However, this condition does not apply if the Applicant has a written agreement with the owner(s) of the relevant residence to generate higher noise levels, and the Applicant has advised the Department in writing of the terms of this agreement.</p> <p><i>Notes:</i></p> <p><i>For the purposes of this condition a privately-owned residence is defines as a residence not owned by a mining company that: is regularly occupied; or is a proposed residence for which a development application has been lodged with the relevant authority prior to the date of this approval;</i></p> <p><i>For the purposes of acquisition under this condition, parcels of land that are in close proximity and operated as a single agricultural enterprise should be considered as part of the land to be acquired. Where the Proponent and the owner(s) cannot agree on whether non-contiguous parcels of land should be included, either party may refer the matter to the Secretary for resolution. The Secretary's decision as to the lands to be included for acquisition under procedures in conditions 8 and 9 and schedule 4 must be final.</i></p> <p><i>Notes 2, 3, 4 and 5 of condition 4 apply to this condition.</i></p> | |
| <p>Schedule 3 Condition 7: Cumulative Noise Criteria</p> | <p>Except for the noise-affected land identified in Condition 3 as being within the project's 35 dB(A) contour, the Proponent must ensure that the operational noise generated by the project combined with the noise generated by other mines does not exceed the criteria in Table 4 at any residence on privately-owned land.</p> <p>[Table omitted - see Table 4-3 above]</p> <p><i>Notes:</i></p> <ul style="list-style-type: none"> • <i>Cumulative noise is to be measured in accordance with the relevant requirements and exemptions (including certain meteorological conditions) of the NSW Noise Policy for Industry (EPA, 2017).</i> • <i>Deleted</i> | <p>Sections 4.3, 5.5 and 6.3, Appendix C</p> |

| Applicable condition | Requirement | NMP Reference |
|--|---|---|
| <p>Schedule 3 Condition 8: Cumulative Noise Acquisition Criteria</p> | <p>If the owner(s) of a privately owned residence reasonably believes that the noise limits in Table 4 are being exceeded at the residence and that the exceedance is caused by operational noise from the project and one or more other mines (including use of private haul roads and rail spurs), the owner(s) can request an independent noise impact assessment for the residence. The request must be made in writing to the Secretary. If the Secretary considers that a noise impact assessment is warranted, then the proponent shall commission the assessment.</p> <p>Where the noise impact assessment determines that the cumulative noise generated by the project combined with the noise from the other mine(s) causes sustained exceedances, or is likely to cause sustained exceedances, of the criteria in Table 4 the owner(s) can make a written request to the Proponent for one of the following:</p> <ol style="list-style-type: none"> a. mitigation (such as double glazing, insulation and air conditioning) at the residence in consultation with the owner(s). These measures must be reasonable and feasible and directed towards reducing the noise impacts of the project upon the residence. If within 3 months of receiving this request from the owner(s), the Proponent and owner(s) cannot agree on the measures to be implemented, or there is a dispute about the implementation of these measures then either party may refer the matter to the Secretary for resolution; or b. acquisition of the residence and the land in accordance with the procedures in conditions 8-9 of Schedule 4. <p>Upon receiving a written request from the owner(s), the proponent must undertake whichever option has been requested by the owner(s).</p> <p>However, this condition does not apply if the Proponent has a written agreement with the owner(s) of the relevant residence to generate higher noise levels, and the Proponent has advised the Department in writing of the terms of this agreement.</p> <p>The Proponent may seek to recover an equitable share of the costs incurred from the other mines contributing to the cumulative impact. Unless otherwise agreed between the mines, the proportional contributions should be based on expert analysis of the monitoring results to assess relative contribution to the impact. If a dispute between the mines the Proponent, or one of the contributing mines, may submit the matter to the Secretary for resolution. The Secretary's decision must be final.</p> <p><i>Notes:</i></p> <ol style="list-style-type: none"> 1. <i>For the purposes of this condition a privately-owned residence is defined as a residence not owned by a mining company that: is regularly occupied; or is a proposed residence for which a development application has been lodged with the relevant authority prior to the date of this approval;</i> 2. <i>For the purposes of acquisition under this condition, parcels of land that are in close proximity and operated as a single agricultural enterprise should be considered as part of the land to be acquired.</i> | <p>Sections 4.3 and 5.5, Appendix C</p> |

| Applicable condition | Requirement | NMP Reference |
|---|--|--|
| | <p><i>Where the Proponent and the owner(s) cannot agree on whether non-contiguous parcels of land should be included, either party may refer the matter to the Director-General for resolution. The Director-General's decision as to the lands to be included for acquisition under procedures in conditions 8 and 9 and schedule 4 must be final.</i></p> <p>3. <i>Notes 2, 3, 4 and 5 of condition 4 apply to this condition.</i></p> <p>4. <i>The noise impact assessment must include assessment of the relative contribution of the mines to the impact at the residence.</i></p> | |
| <p>Schedule 3 Condition 9: Attenuation of Plant</p> | <p>The Proponent must:</p> <ul style="list-style-type: none"> a. Ensure that: <ul style="list-style-type: none"> – all new trucks, dozers, drills and excavators purchased for use on the site after the date of this approval are commissioned as noise-suppressed (or attenuated) units; – Deleted – Where reasonable and feasible, improvements are made to existing noise suppression equipment as technologies become available; and b. monitor and report on the implementation of these requirements annually on its website. | <p>Sections 5.2 and 6.5</p> |
| <p>Schedule 3 Condition 10: Attenuation of Plant</p> | <p>The Proponent must:</p> <ul style="list-style-type: none"> a. conduct an annual testing program of the attenuated plant on site to ensure that the attenuation remains effective; b. restore the effectiveness of any attenuation if it is found to be defective; and c. report on the results of any testing and/or restoration work within the Annual Review. | <p>Section 5.2 and Section 6.5</p> |
| <p>Schedule 3 Condition 11: Boggabri Rail Spur Line and Bridge Design - Noise Impacts</p> | <p>The Proponent must:</p> <ul style="list-style-type: none"> a. undertake commissioning trials of the operation of the Rail Spur to optimise train speed to minimise noise impacts; and b. following completion and commissioning of the Spur Line, undertake targeted noise monitoring to determine the accuracy of predicted acoustic impacts and effectiveness of any noise reduction measures, including monitoring during adverse inversion conditions, <p>to the satisfaction of the Secretary.</p> | <p>Section 5.2</p> |

| Applicable condition | Requirement | NMP Reference |
|--|---|---------------------------|
| <p>Schedule 3 Condition 12: Operating Conditions</p> | <p>The Proponent must:</p> <ol style="list-style-type: none"> a. implement best noise management practice to minimise the operational, low frequency and road and rail traffic noise of the project; b. operate a comprehensive noise management system on site that uses a combination of predictive meteorological forecasting and real time noise monitoring data to guide the day to day planning of mining operations and implementation of both proactive and reactive noise mitigation measures to ensure compliance with the relevant conditions of this approval. c. Maintain the effectiveness of noise suppression equipment on plant at all times and ensure defective plant is not used operationally until fully repaired; d. Ensure that noise attenuated plant is deployed preferentially in locations relevant to sensitive receivers; e. minimise the noise impacts of the project during meteorological conditions when the noise limits in this approval do not apply; f. Ensure that the Boggabri Rail Spur Line is only accessed by locomotives that are approved to operate on the NSW rail network in accordance with the noise limits in ARTC's EPL (No 3142); g. Use its best endeavours to ensure that rolling stock supplied by service providers on the Boggabri Rail Spur Line is designed and constructed to minimise noise; h. Ensure any new rail rolling stock manufactured specifically for the project is designed and constructed to minimise noise; i. Use its best endeavours to achieve the long term intrusive noise goals for the project in Table 5, where this is reasonable and feasible, and report on the progress of achieving these goals in the annual review; and j. Coordinate the noise management on site with the noise management at other mines within the Leard Forest Mining Precinct to minimise the cumulative noise impacts of these mines, <p>to the satisfaction of the Secretary.</p> <p><i>Notes:</i></p> <ul style="list-style-type: none"> • <i>The comprehensive review can be undertaken as part of independent environment audits required under condition 10 of schedule 5.</i> • <i>[Table 5 omitted]</i> • <i>To interpret the locations referred to in Table 5, see the applicable figures in Appendix 4; and</i> • <i>Deleted</i> | <p>Whole NMP Document</p> |

| Applicable condition | Requirement | NMP Reference |
|--|---|---------------------------|
| <p>Schedule 3 Condition 13 - Noise Management Plan</p> | <p>The Proponent must prepare and implement a Noise Management Plan for the project to the satisfaction of the Secretary. This plan must:</p> <ol style="list-style-type: none"> a. be prepared in consultation with the EPA and the CCC, and submitted to the Secretary for approval within 6 months of the date of this approval; b. describe the measures that would be implemented to ensure: <ul style="list-style-type: none"> – best management practice is being employed; – the noise impacts of the project are minimised during meteorological conditions when the noise limits in this approval do not apply; and – compliance with the relevant conditions of this approval; c. (c) describe the proposed noise management system in detail; d. include a risk/response matrix to codify mine operational responses to varying levels of risk resulting from weather conditions and specific mining activities; e. include commitments to provide summary reports and specific briefings at CCC meetings on issues arising from noise monitoring; f. include a monitoring program that: <ul style="list-style-type: none"> – uses a combination of real time and supplementary attended monitoring to evaluate the performance of the project; – adequately supports the proactive and reactive noise management system on site; – uses predictive meteorological forecasting to incorporate proactive mitigation measures to manage noise impacts; – includes monitoring of inversion strength at an appropriate sampling rate to determine compliance with noise limits; – evaluates and reports on the effectiveness of the noise management system on site; – provides for the annual validation of the noise model for the project; and g. includes a Leard Forest Mining Precinct Noise Management Strategy that has been prepared in consultation with other coal mines in the Precinct to minimise the cumulative noise impacts of all mines within the Precinct, that includes: <ul style="list-style-type: none"> – systems and processes to ensure that all mines are managed to achieve their noise criteria; – a shared environment monitoring network and data sharing protocol; and – procedures for identifying and apportioning the source/s and contribution/s to cumulative noise impacts for operating mines | <p>Whole NMP Document</p> |

| Applicable condition | Requirement | NMP Reference |
|---|--|--|
| | <p>and other sources, using the noise and meteorological monitoring network and appropriate investigative tools.</p> <p><i>Note: The Leard Forest Mining Precinct Noise Management Strategy can be developed in stages and will need to be subject to ongoing review dependent upon the determination and commencement of other mining projects in the area.</i></p> | |
| Schedule 3 Condition 13A | The Proponent must implement the Noise Management Plan as approved by the Secretary. | Whole NMP Document |
| Schedule 3 Condition 14 – Noise Measurement | Deleted | N/A |
| Schedule 3 Condition 32 - Meteorological Monitoring | <p>32. For the life of the project, the Proponent must ensure that there is a meteorological station in the vicinity of the site that:</p> <p>.....(b) is capable of continuous real-time measurement of temperature lapse rate in accordance with the NSW Noise Policy for Industry (EPA, 2017), unless a suitable alternative is approved by the Secretary following consultation with the EPA.</p> | Section 6.4 |
| Schedule 5, Condition 10: Independent Environmental Audit | <p>By the end of June 2014 and every 3 years thereafter, unless the Secretary directs otherwise, the Proponent must commission and pay the full cost of an Independent Environmental Audit of the project. This audit must:</p> <p>...</p> <p>(d) assess whether the Proponent is implementing best noise, blasting and air quality management practice;</p> <p>(e) investigate and report on the measures taken to minimise the noise impacts of the project during meteorological conditions when the noise limits in this approval do not apply, including:</p> <ul style="list-style-type: none"> • the effectiveness of these measures in maintaining noise impacts within the relevant noise criteria in this approval and/or the limits in the relevant EPL; and • any additional measures available to mitigate noise impacts under such meteorological conditions | Section 7.5 |
| Schedule 5 Condition 13: Online Communication | <p>The Proponent must ensure that the noise and air quality risk/response matrices required to be developed in the Noise and Air Quality Management Plans and validated real time monitoring data are available on line and includes:</p> <p>(a) timely publication of validated monitoring data in a clearly understandable form;</p> <p>(b) identification of mine operational responses to monitoring data and weather forecasts; and</p> | Section 7.1 Sections 5.3, 6.3 and 6.4 |

| Applicable condition | Requirement | NMP Reference |
|----------------------|---|---------------|
| | (c) provision for on-line input/response by members of the community and real time engagement with regionally-based regulatory compliance staff, to the satisfaction of the Secretary. | |

B.1.2 Protection of the Environment Operations Act 1997

BCOPL holds EPL No. 12407 under the Protection of the Environment Operations Act 1997 (NSW). A summary of the EPL noise conditions is provided in Table B-2 below. For detailed conditions refer to the EPL.

Table B-2: EPL 12407 conditions

| Applicable Condition | Requirement | NMP Reference | | | | | | | | | | |
|--------------------------------|---|--------------------------|------------------------|--------------------------|------------------------|----------------------|--------------------------------|----------|----------|----------|----------|-------------|
| L4.1 | <p>Noise generated at the premises must not exceed the noise limits in the table below.</p> <table border="1"> <thead> <tr> <th>Locality and Location</th> <th>Day- LAeq(15 minute)</th> <th>Evening- LAeq(15 minute)</th> <th>Night- LAeq(15 minute)</th> <th>Night- LA1(1 minute)</th> </tr> </thead> <tbody> <tr> <td>All privately owned residences</td> <td>35 dB(A)</td> <td>35 dB(A)</td> <td>35 dB(A)</td> <td>45 dB(A)</td> </tr> </tbody> </table> <p>(Note: subsequent conditions L4.2 to L4.7 give more detail on requirements for monitoring and acquisition. For full conditions refer to EPL).</p> | Locality and Location | Day- LAeq(15 minute) | Evening- LAeq(15 minute) | Night- LAeq(15 minute) | Night- LA1(1 minute) | All privately owned residences | 35 dB(A) | 35 dB(A) | 35 dB(A) | 45 dB(A) | Section 4.0 |
| Locality and Location | Day- LAeq(15 minute) | Evening- LAeq(15 minute) | Night- LAeq(15 minute) | Night- LA1(1 minute) | | | | | | | | |
| All privately owned residences | 35 dB(A) | 35 dB(A) | 35 dB(A) | 45 dB(A) | | | | | | | | |
| M8.1 | <p>To assess compliance with the noise limits presented in the Noise Limits table, attended noise monitoring must be undertaken in accordance with the condition titled Determining Compliance, outlined above, and:</p> <ol style="list-style-type: none"> at noise monitoring locations N2, N3 and N4 as shown on the map titled "Noise Management Strategy Boggabri Coal Pty Ltd, Appendix A" in the most recently approved Boggabri Coal Operations Pty Ltd Noise Management Plan as approved by the DPIE. occur monthly in a reporting period; and occur during each night period as defined in the NSW Industrial Noise Policy for a minimum of 15 minutes | Section 6.1 | | | | | | | | | | |
| R4.1 | <p>A noise compliance assessment report must be submitted to the EPA within 30 days of the completion of the monthly monitoring. The assessment must be prepared by a suitably qualified and experienced acoustical consultant and include:</p> <ol style="list-style-type: none"> an assessment of compliance with noise limits presented in this licence; and an outline of any management actions taken within the monitoring period to address any exceedances of the limits contained in this licence. | Sections 7.2 and 8.0. | | | | | | | | | | |

| Applicable Condition | Requirement | NMP Reference |
|----------------------|--|----------------------|
| E1.1 | <p>Noise impacts where wind speed exceeds 3 metres per second at 10 metres above the ground must be addressed by:</p> <ul style="list-style-type: none"> a. documenting noise complaints received to identify any higher level of impacts or wind patterns; b. where levels of noise complaints indicate a higher level of impact then actions to quantify and ameliorate any enhanced impacts where wind speed exceeds 3 metres per second at 10 metres above the ground should be developed and implemented. | Sections 5.0 and 8.0 |

Appendix C

Process flow diagrams for property mitigation, assessment, and acquisition

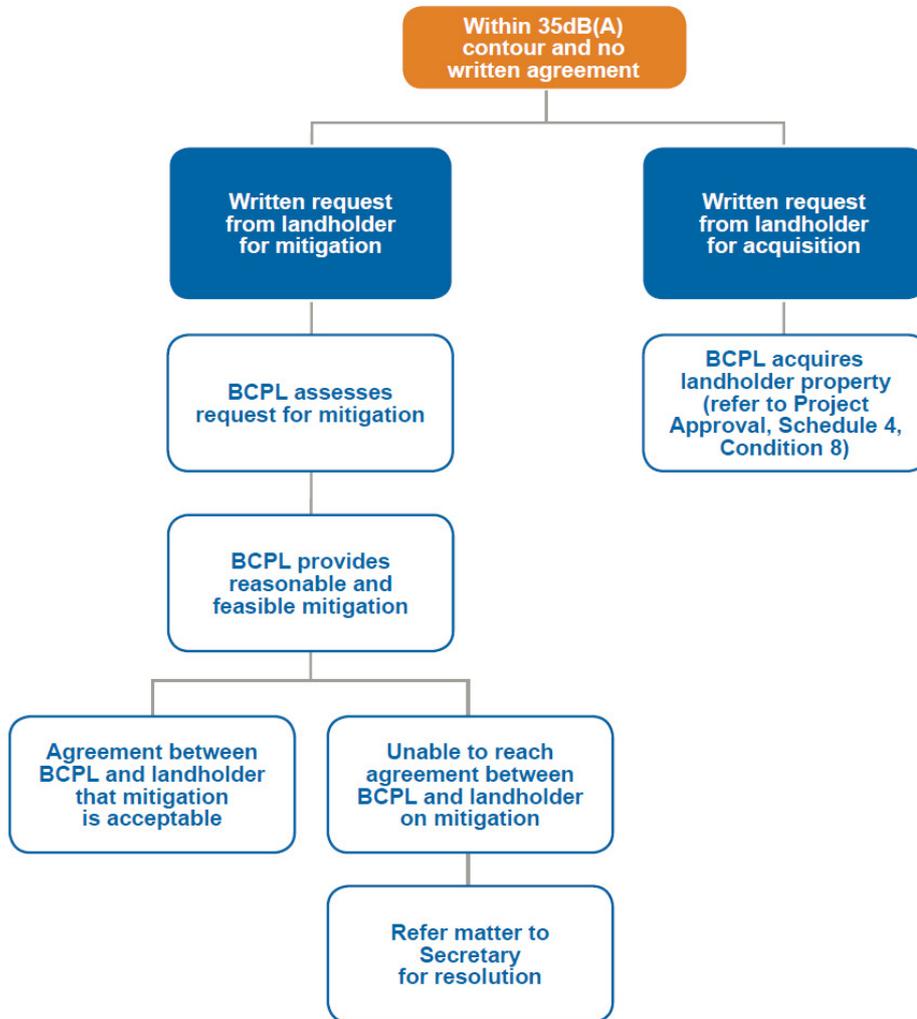


Figure C-1: Process for noise assessment, mitigation and acquisition for landholders within 35 dB(A) contour area and no written agreement with BCPL

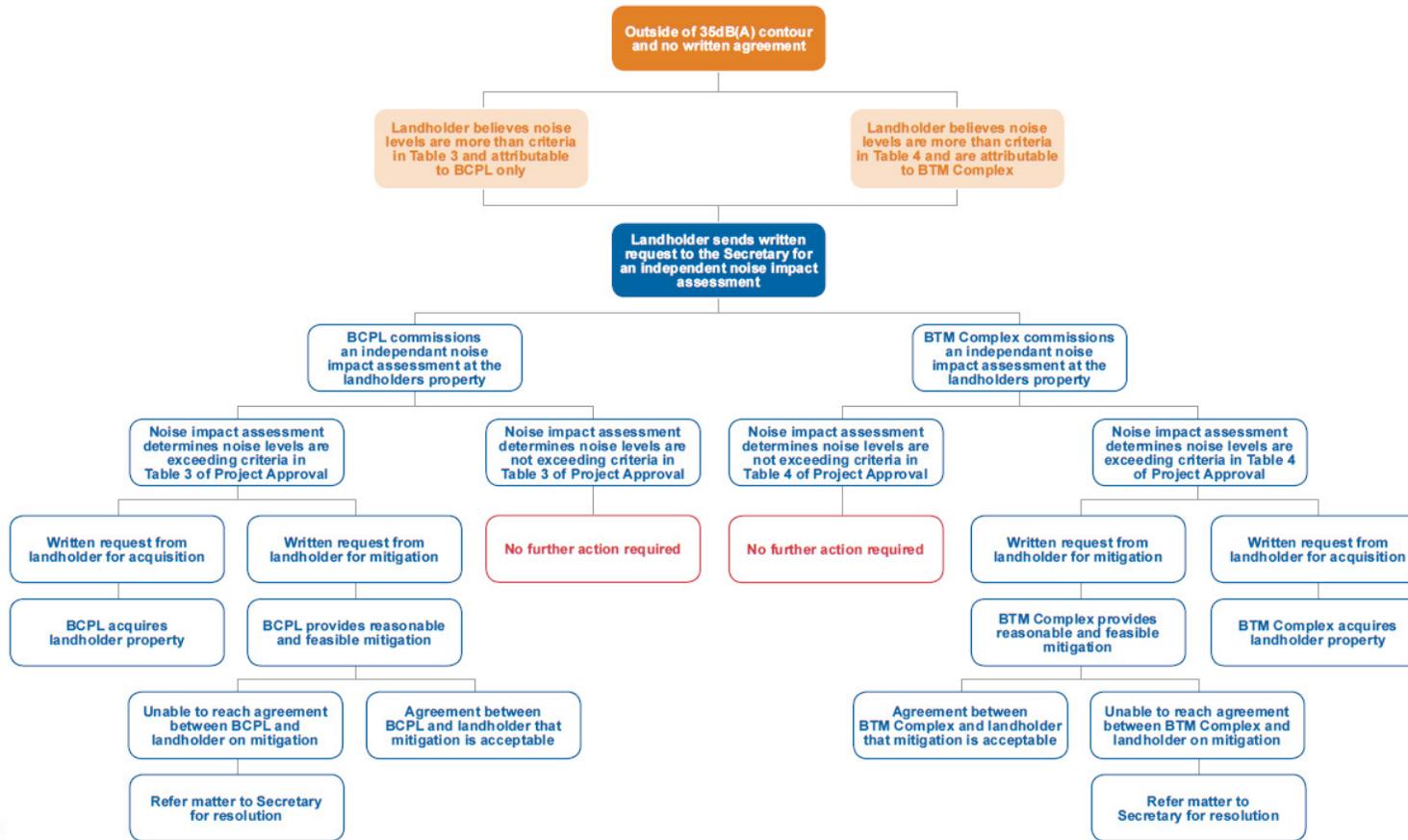


Figure C-2: Process for noise assessment, mitigation and acquisition for landholders outside of 35 dB(A) contour area

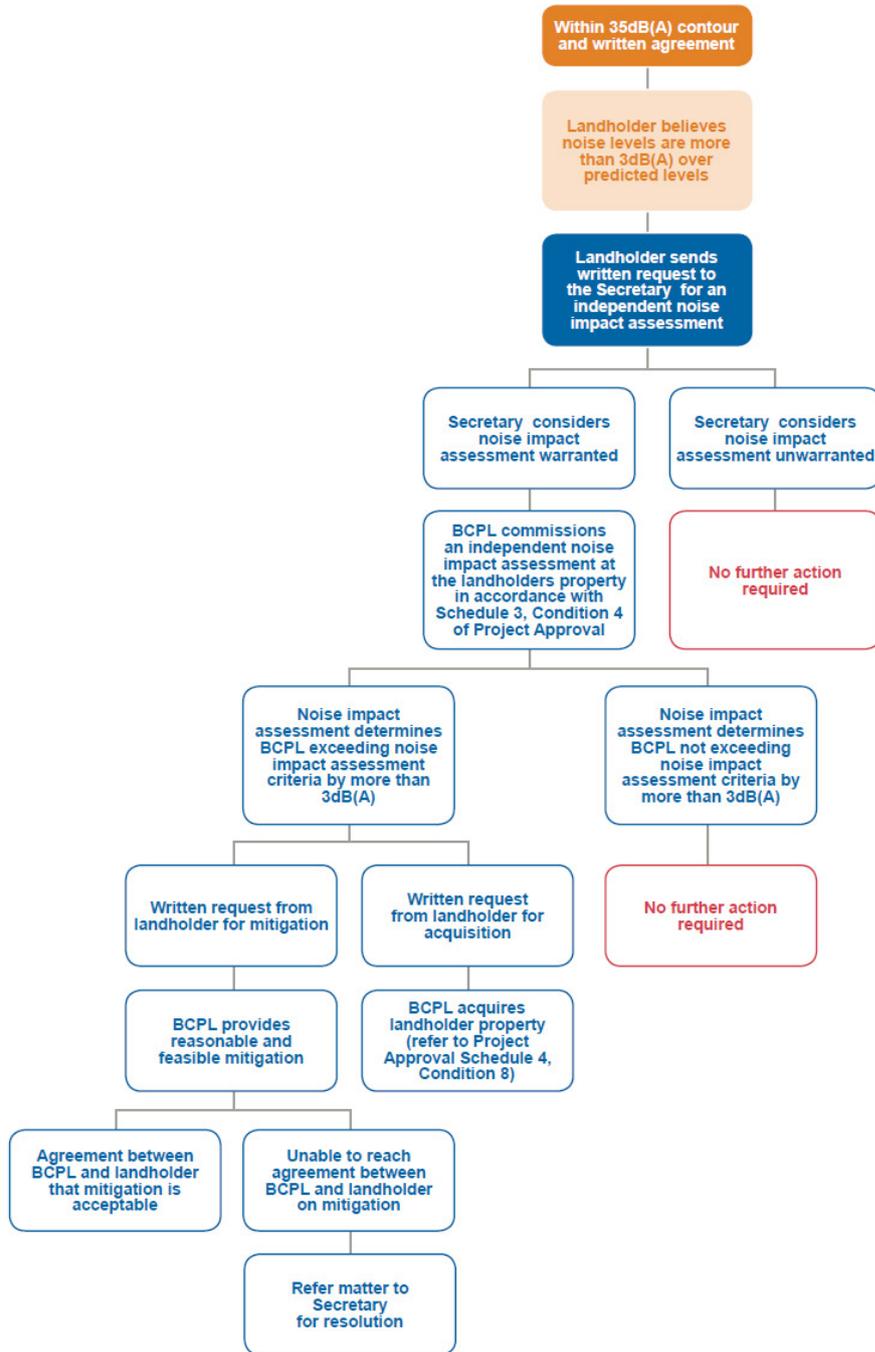


Figure C-3: Process for noise assessment, mitigation and acquisition for landholders within 35 dB(A) contour area and that have a written agreement with BCOPL

Appendix D

Consultation Record

Table D-3: Record of agency consultation

| Consultation | Date | Details | Response |
|---|--------------|--|---|
| Noise Management Plan | January 2013 | NMP sent to DP&E for review/approval. | Plan lodged January 2013. DPIE comments received March 2013. Plan subsequently revised to address comments, the revised MOP and the BTM Complex NMS. |
| Boggabri Coal CCC Meeting April 2013 | 30.04.2013 | NMS was presented to the CCC for comment. | The NMS presentation was received by the CCC. General comments regarding noise were considered in the revision of the NMS. No further comment was received. |
| Noise Management Plan for Boggabri Coal Mine sent to EPA for comment | 28.01.2014 | The management plan contains details of the proposed BTM Complex NMS | The EPA received the management plan and responded on 12.02.2014 that “the Environment Protection Authority (EPA) encourages the development of such plans to ensure that proponents have determined how they will meet their statutory obligations and designated environmental objectives. However, we do not approve or endorse these documents as our role is to set environmental objectives for environmental/ conservation management, not to be directly involved in the development of strategies to achieve those objectives” |
| Boggabri Coal CCC meeting August 2016 | August 2016 | NMP was presented to CCC for comment | The NMP presentation was received by the CCC. General comments regarding noise were considered in the revision of the NMP. No further comment was received. |
| Noise Management Plan for Boggabri Coal Mine sent to EPA for comment | August 2016 | Revised NMP sent to EPA for comment | No response received to date. |
| Noise Management Plan for Boggabri Coal Mine sent to DPIE for review and approval | October 2017 | Revised NMP sent to DPE for review and approval. | DPIE provided review comments in February 2018. Boggabri Coal updated the NMP to address the review comments and resubmitted the revised plan in June, and then again in July 2018. DPE approval letter sent 6.09.2018. |
| Noise Management Plan for Boggabri Coal Mine sent to DPIE for review and approval | May 2019 | Revised NMP sent to DPIE for review and approval. | DPIE approval letter sent 27.06.2019 |

| Consultation | Date | Details | Response |
|---|---------------|---|---|
| Boggabri Coal CCC meeting August 2024 | February 2024 | NMP was presented to CCC for comment | The NMP presentation was received by the CCC. General comments regarding noise were considered in the revision of the NMP. No further comment was received. |
| Noise Management Plan for Boggabri Coal Mine sent to EPA for comment | March 2024 | Revised NMP sent to EPA for comment | |

Appendix E

BTM Complex Noise Management Strategy (NMS)

A copy of the approved BTM Noise Management Strategy can be found on our website at:
<https://www.idemitsu.com.au/mining/wp-content/uploads/2016/02/ENV-BTM-STR-004-BTM-NMS-2024.pdf>

Ms Alex Williams
Environmental Superintendent
Boggabri Coal Pty Limited
386 Leard Forest Road
Boggabri, NSW, 2382

24/07/2024

Subject: Noise Management Plan

Dear Ms Williams

I refer to the Noise Management Plan (rev 15, dated March 2024) submitted in accordance with Schedule 3, Condition 13 of the approval for the Boggabri Coal Mine (MP09_0182). I also acknowledge your response to the Department's review comments.

I note the Noise Management Plan has been prepared in consultation with the Environment Protection Authority and the Community Consultative Committee for the project, and contains the information required by the conditions of approval.

Accordingly, as nominee of the Planning Secretary, I approve the Noise Management Plan (rev 15, dated March 2024).

You are reminded that if there are any inconsistencies between the Noise Management Plan and the conditions of approval, the conditions prevail.

Please ensure you make the document publicly available on the project website at the earliest convenience.

If you wish to discuss the matter further, please contact Brittany Golding on 02 9995 5742.

Yours sincerely



Stephen O'Donoghue
Director
Resource Assessments

As nominee of the Planning Secretary