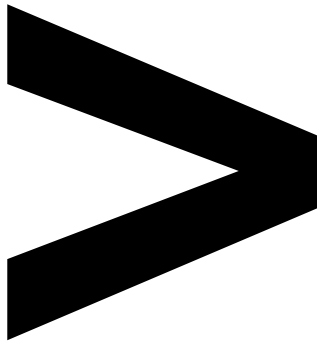




**HUNTER VALLEY
OPERATIONS**

NOISE MANAGEMENT

DOCUMENT NUMBER
HVOOC-1797567310-4028

STATUS
Approved

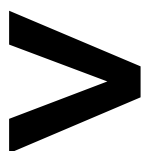
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02/04/2028

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Superintendent - Environment and Community

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1 | PURPOSE

The purpose of this Noise Management Plan (NMP) is to describe feasible and reasonable measures to:

- Address potential noise impacts at Hunter Valley Operations (HVO) as identified in the HVO North and HVO South Approvals; and
- Satisfy the relevant conditions of the Approvals.

This NMP describes procedures required to help achieve compliance with the Approval conditions relating to noise impacts including the measures that HVO will use to manage noise impacts. It also details the management framework and noise mitigation actions.

2 | SCOPE

This NMP applies to the area within HVO North and HVO South approval boundaries (refer to Figure 4-2) including:

- Operating Pits;
- Coal Preparation Plants (CPPs); and
- Loading Points.

This NMP is to be applied from the time of approval of this plan and during construction and operation activities at HVO.

3 | OBJECTIVES

The objectives of this NMP are to:

- Set out the measures that will be used to minimise noise impacts of HVO;
- Describe how HVO will implement best management practice;
- Describe how HVO will endeavour to achieve compliance with the conditions of Approval (see *Table 5-1 - Consent Conditions Addressed*);
- Describe how HVO intends to effectively manage operational noise from the project;
- Provide a program for:
 - monitoring performance;
 - evaluating noise compliance; and
 - measuring the effectiveness of controls undertaken by site to effectively manage noise;
- Describe how HVO intend to cooperate with neighbouring mines to minimise the cumulative noise impacts of those mines and HVO; and
- Provide a mechanism for assessing noise monitoring results against the relevant noise impact assessment criteria.

Key elements of the mitigation strategies are:

- On-going real-time noise monitoring to assess the performance of the mining operations against predicted noise levels;
- Modification of operations where monitoring data indicates the need;
- Pro-active mine planning, such as the provision of alternative areas for overburden emplacement where practical or management and scheduling of mobile equipment, dependent on the prevailing meteorological conditions;
- Use of predictive meteorological forecasting to inform operational decision making
- Ongoing monthly attended noise monitoring.

4 | BACKGROUND

HVO is an open cut mining complex located approximately 24 kilometres north-west of Singleton, New South Wales (NSW) and geographically divided by the Hunter River into HVO North and HVO South. HVO is managed as one operation, however HVO North and HVO South have separate planning approvals.

HVO North was granted Project Approval (DA 450-10-2003) on 12 June 2004 by the then Minister for Infrastructure and Planning and the Minister for Natural Resources (the HVO North Approval). The most recent modification was approved on 28 July 2017.

HVO South operates in accordance with the Project Approval (PA 06_0261) granted on 24 March 2009 by the then Minister for Planning (the HVO South Approval). The most recent modification was approved on 6 February 2023.

HVO is generally bound by Lemington Road, Jerry's Plains Road alongside its western boundary. The New England Highway is located to the north and east, with the Golden Highway to the south.

HVO occurs in an area where mining is already a feature of the landscape; it is located in the Hunter Valley coalfields with surrounding mines and infrastructure including, Mount Thorley Warkworth (MTW), United - Wambo and Ravensworth.

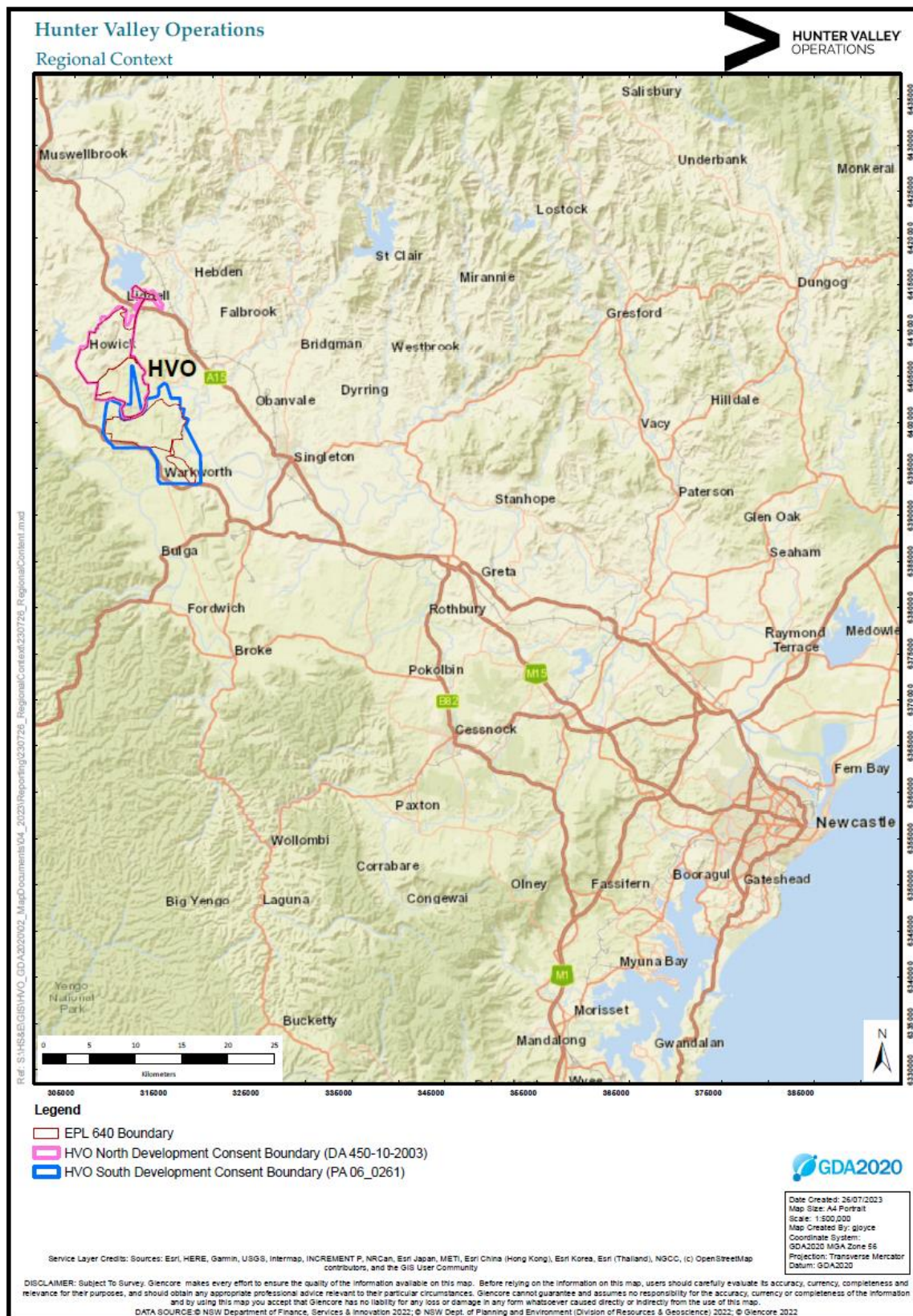
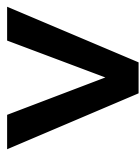


Figure 4-1: Locality Plan

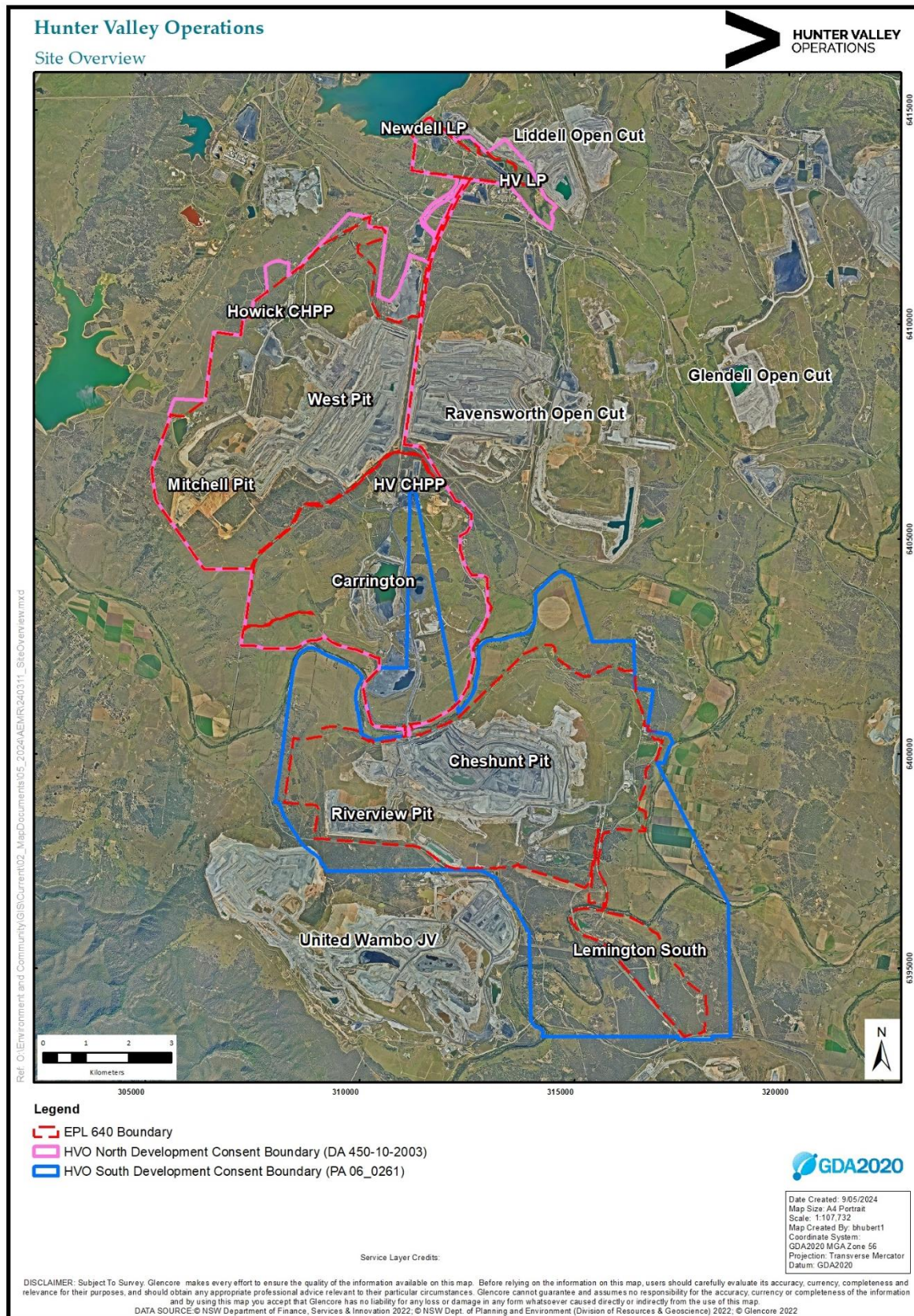
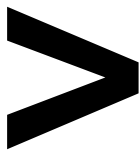


Figure 4-2 - HVO Approval Boundaries

Number:	HVOOC-1797567310-4028	Status:	Approved	Effective:	02/04/2025
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4.1 | EXISTING CHARACTER

The HVO North complex comprises the:

- Carrington Pit;
- West Pit;
- Mitchell Pit;
- North Pits;
- Hunter Valley Coal Preparation Plant (HVCPP);
- Howick Coal Preparation Plant (HCPP);
- Hunter Valley Load Point (HVLN); and
- Newdell Loading Point (NLP).

HVO South comprises the:

- Cheshunt Pits;
- Riverview Pit; and
- Lemington South Pit.

4.2 | APPROVED ACTIVITIES

Approved HVO mining activities north of the Hunter River are comprised of:

- coal mining areas as outlined in Section 4.1 |,
- use of the coal preparation plants as outlined in Section 4.1 |,
- use of the NLP and the HVLN train loading facilities;
- use of two administration areas including bathhouses;
 - one adjacent to the HVCPP; and
 - one adjacent to the HCPP;
- two workshops;
 - one adjacent to the HVCPP; and
 - one adjacent to the HCPP;
- use of numerous internal haul roads and conveyors.

Approved HVO mining activities south of the Hunter River are comprised of:

- open cut and highwall mining of coal reserves in the areas outlined in Section 4.1 |,
- mining by a combination of draglines, shovels, excavators and associated haul trucks;
- use of numerous internal haul roads;
- use of a workshop;
- storage of Ammonium Nitrate
- manufacture of blasting emulsion; and
- use of infrastructure to facilitate transfer of product coal (a rail spur and loop, overland conveyor or trucks, or any combination).

4.3 | EXISTING INFRASTRUCTURE

The major infrastructure at HVO North includes:

- workshops to provide maintenance and repair services to the mining fleet;
- vehicle washing facilities for both heavy and light vehicles;
- bulk oil and fuel storages;
- explosive facilities
- bathhouse;
- general stores;
- administration and technical offices;
- HVCPP;
- HCPP; and

Site infrastructure for HVO South includes:

- Lemington bathhouse;
- Lemington workshop;
- Lemington offices;
- Lemington store;
- Lemington Underground Bore facility; and
- other amenities, buildings, transmission lines, switchyards, sub stations, phone lines, pipelines, fuel and explosive facilities, emulsion manufacturing haul roads, mine access roads, stockpiles and bridges.



4.4 | METEOROLOGICAL CONDITIONS

Meteorological conditions experienced at HVO are considered typical for the Upper Hunter. Wind patterns follow an annualised cycle predominantly blowing from the north-west during the cooler months, and from the southeast during the warmer months.

Since 2003, average annual rainfall is 609.95mm.

Records of wind speed, wind direction and sigma-theta (used to calculate Pasquill Stability Classes) has been analysed for the purposes of noise assessment during the environmental assessment phase of the Project.

The combined occurrence of atmospheric stability class F and G indicates that temperature inversions are considered to be a feature (as defined in the INP) of the region during autumn nights, with potential to enhance noise propagation.

4.5 | BACKGROUND NOISE LEVELS

A detailed noise study has been undertaken as part of the environmental assessment phase of the HVO West Pit and minor modifications development, CWW, and the HVO South Modification 5.

The noise studies detail key receptors and background noise levels, as well as modelled impacts under a range of meteorological scenarios at different stages of the life of the developments. Modelling has been undertaken in accordance with the requirements of the INP (now superseded by NPfI).

The modelling proposes noise limits for the development in accordance with the INP (now superseded by NPfI).

For full details, refer to:

- 'Noise and Vibration Assessment', Volume Two – Supporting Appendices, Carrington West Wing Environmental Assessment, EMGA Mitchell McLennan – October 2010;
- 'Hunter Valley Operations South Coal Project Noise and Vibration Assessment', Volume 2 – Environmental Assessment Report, Environmental Resource Management – January 2008;
- 'Hunter Valley Operations South – Modification 5' – Environmental Assessment EMM Volumes 1 and 2. February 2017; and
- 'Hunter Valley Operations West Pit and Minor Modifications Noise Assessment', Volume Three – Technical Reports, Environmental Resource Management – October 2003

5 | STATUTORY REQUIREMENTS AND GUIDELINES

This NMP has been prepared to fulfil the requirements of:

- relevant legislation;
- the Approvals;
- EA commitments;
- Environment Protection Licence (EPL) conditions; and
- relevant standards and guidelines.



5.1 | PROJECT APPROVAL

The current HVO North Approval was granted on 12 June 2004 and subsequently modified on the 28 July 2017.

The current HVO South Approval was granted on 24 March 2009, and was subsequently modified on 6 February 2023.

The requirement for this NMP arises from Condition 10, Schedule 3 of the HVO North Approval and Condition 6, Schedule 3 of the HVO South Approval. A list of the relevant conditions of the Approvals and the Statement of Commitments and where they are addressed in this NMP can be found in Table 5-1 and Table 5-2.



Table 5-1 - Consent Conditions Addressed

Consent Condition	Environmental Performance Conditions	Section of NMP which addresses this requirement																		
HVO NORTH CONSENT (DA 450-10-2003)																				
Sch. 3, Cond. 7	The Applicant must ensure that the noise generated by the development does not exceed the noise impact assessment criteria presented in Table 9 at any privately-owned land. <i>Table 9: Noise impact assessment criteria dB(A)</i> <table> <tr> <th>Day/Evening/Night <i>L_{Aeq}(15 minute)</i></th><th>Night <i>L_{A1}(1 minute)</i></th><th>Land Number</th></tr> <tr> <td>40</td><td>46</td><td>4 – Muller (from year 1 to year 7) 7 – Stapleton Jerrys Plains Village – represented by residence locations 13 and 14 on Figure 24, volume 4 of the EIS (years 20 & 21). 1 – Hayes (years 20 & 21) 18 – Bennet (years 20 & 21) 51 – Nicholls (years 20 & 21) 52 – Old – (years 20 & 21)</td></tr> <tr> <td>39</td><td>46</td><td>2 – Skinner 3 – Ellisnore 11 – Fisher 19 – Biralee Feeds 31 – Cooper 36 – Garland 54 – Skinner</td></tr> <tr> <td>38</td><td>46</td><td>1 – Hayes (from year 1 to year 19) 18 – Bennet (from year 1 to year 19) 51 – Nicholls (from year 1 to year 19) 52 – Old (from year 1 to year 19)</td></tr> <tr> <td>36</td><td>46</td><td>4 – Muller (from year 8 to year 21)</td></tr> <tr> <td>35</td><td>46</td><td>All other residential or sensitive receptors, excluding the receptors listed in condition 1 above.</td></tr> </table> Notes: (a) The years referenced in Table 9 are to be considered as the position of mining operations as set out in the EIS for that year. If mining operations are delayed or accelerated from the planned location as shown in the EIS for a particular year, then the noise assessment criteria will be adjusted in accordance with the location of actual mining operations. The location of actual mining operations in relation to locations predicted in the EIS, will be indicated in the Annual Review (see schedule 6, condition 5). (b) The noise limits in Table 9 are for the noise contribution of the West Pit extension and all Hunter Valley Operations north of the Hunter River and coal haulage identified in the EIS from the south side of the Hunter River. (c) Noise from the development is to be measured at the most affected point within the residential boundary, or at the most affected point within 30 metres of a dwelling (rural situations) where the dwelling is more than 30 metres from the boundary, to determine compliance with the <i>L_{Aeq}(15 minute)</i> noise limits in the above table. (d) To determine compliance with the <i>L_{Aeq}(15 minute)</i> noise limits in the above table. Where it can be demonstrated that direct measurement of noise from the development is impractical, the EPA may accept alternative means of determining compliance (see Chapter 11 of the NSW Industrial Noise Policy). The modification factors in Section 4 of the NSW Industrial Noise Policy shall also be applied to the measured noise levels where applicable.	Day/Evening/Night <i>L_{Aeq}(15 minute)</i>	Night <i>L_{A1}(1 minute)</i>	Land Number	40	46	4 – Muller (from year 1 to year 7) 7 – Stapleton Jerrys Plains Village – represented by residence locations 13 and 14 on Figure 24, volume 4 of the EIS (years 20 & 21). 1 – Hayes (years 20 & 21) 18 – Bennet (years 20 & 21) 51 – Nicholls (years 20 & 21) 52 – Old – (years 20 & 21)	39	46	2 – Skinner 3 – Ellisnore 11 – Fisher 19 – Biralee Feeds 31 – Cooper 36 – Garland 54 – Skinner	38	46	1 – Hayes (from year 1 to year 19) 18 – Bennet (from year 1 to year 19) 51 – Nicholls (from year 1 to year 19) 52 – Old (from year 1 to year 19)	36	46	4 – Muller (from year 8 to year 21)	35	46	All other residential or sensitive receptors, excluding the receptors listed in condition 1 above.	8.2
Day/Evening/Night <i>L_{Aeq}(15 minute)</i>	Night <i>L_{A1}(1 minute)</i>	Land Number																		
40	46	4 – Muller (from year 1 to year 7) 7 – Stapleton Jerrys Plains Village – represented by residence locations 13 and 14 on Figure 24, volume 4 of the EIS (years 20 & 21). 1 – Hayes (years 20 & 21) 18 – Bennet (years 20 & 21) 51 – Nicholls (years 20 & 21) 52 – Old – (years 20 & 21)																		
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36	46	4 – Muller (from year 8 to year 21)																		
35	46	All other residential or sensitive receptors, excluding the receptors listed in condition 1 above.																		



Consent Condition	Environmental Performance Conditions	Section of NMP which addresses this requirement								
	(e) Noise from the development is to be measured at 1 metre from the dwelling façade to determine compliance with the $L_{A1}(1\text{ minute})$ noise limits in the above table. (f) The noise limits in Table 9 are to be applied in accordance with the limitations and requirements set out in Appendix 3.									
Sch. 3, Cond. 8	If the noise generated by the development exceeds the criteria in Table 10, the Applicant must, upon receiving a written request for acquisition from the landowner, acquire the land in accordance with the procedures in Conditions 6 and 7 of Schedule 5. <i>Table 10: Land acquisition criteria dB(A)</i> <table><tr><th>Day/Evening/Night $L_{Aeq}(15\text{ minute})$</th><th>Property</th></tr><tr><td>43</td><td>11 – Fisher</td></tr><tr><td>42</td><td>7 - Stapleton</td></tr><tr><td>41</td><td>All residential or sensitive receptors, excluding the receptors listed in condition 1 above</td></tr></table>	Day/Evening/Night $L_{Aeq}(15\text{ minute})$	Property	43	11 – Fisher	42	7 - Stapleton	41	All residential or sensitive receptors, excluding the receptors listed in condition 1 above	8.2
Day/Evening/Night $L_{Aeq}(15\text{ minute})$	Property									
43	11 – Fisher									
42	7 - Stapleton									
41	All residential or sensitive receptors, excluding the receptors listed in condition 1 above									
Sch. 3, Cond. 9(a)	The Applicant must: implement best management practice to minimise the operational, low frequency, road and rail traffic noise of the development; to the satisfaction of the Secretary.	7.3 ,5.4								
Sch. 3, Cond. 9(a)	The Applicant must: 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 the implementation of both proactive and reactive noise mitigation measures to ensure compliance with the relevant conditions of this approval; to the satisfaction of the Secretary.	Sections 7.1.1 , 5.4 and 7.1								
Sch. 3, Cond. 9(b)	The Applicant must: maintain the effectiveness of any installed noise suppression equipment on plant at all times and ensure defective plant is not used operationally until fully repaired; to the satisfaction of the Secretary.	7.1.2								
Sch. 3, Cond. 9(c)	The Applicant must: ensure that any noise attenuated plant on site is deployed preferentially in locations relevant to sensitive receivers; to the satisfaction of the Secretary.	7.1.2 , 7.1.3.2								
Sch. 3, Cond. 9(d)	The Applicant must: minimise the noise impacts of the development during meteorological conditions when the noise limits in this approval do not apply; to the satisfaction of the Secretary.	7.1.4								



Consent Condition	Environmental Performance Conditions	Section of NMP which addresses this requirement
Sch. 3, Cond. 9(e)	The Applicant must: ensure that the site 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); to the satisfaction of the Secretary.	7.3
Sch. 3, Cond. 9(f)	The Applicant must: use its best endeavours to ensure that the rolling stock supplied by service providers is designed, constructed and maintained to minimise noise; to the satisfaction of the Secretary.	7.3
Sch. 3, Cond. 9(g)	The Applicant must: co-ordinate the noise management on site with the noise management at nearby mines (Mt Thorley Warkworth, Wambo, Ravensworth and HVO South mines) to minimise the cumulative noise impacts of these mines and the development, to the satisfaction of the Secretary.	6.2
Sch. 3, Cond. 10(a)	The Applicant must prepare and implement a Noise Management Plan for the development to the satisfaction of the Secretary. This plan must: (be prepared in consultation with the EPA, and submitted to the Secretary for approval by the end of June 2013;	6.1 and 2
Sch. 3, Cond. 10(b)	The Applicant must prepare and implement a Noise Management Plan for the development to the satisfaction of the Secretary. This plan must: describe the measures that would be implemented to ensure: • best management practice is being employed; • the noise impacts of the development are minimised during meteorological conditions when the noise criteria in this consent do not apply; and • compliance with the relevant conditions of this consent.	• 5.4 • 7.1.4.4 • 8.2 , 8.2.4
Sch. 3, Cond. 10(c)	The Applicant must prepare and implement a Noise Management Plan for the development to the satisfaction of the Secretary. This plan must: describe the proposed noise management system in detail, including: • nomination of the real-time noise monitoring locations and the noise levels that would trigger additional noise management actions; • a matrix of predetermined actions to be employed when trigger levels are exceeded; and • procedures for varying the rates and locations of attended monitoring should the real-time monitoring data suggest that the relevant noise limits are being exceeded;	• 7.1.4 , 7.1.5 , 8.1.1 , 8.1.2 • 7.1.4.4 , 8.2.4 , 8.2.5 • 7.1.5.2



Consent Condition	Environmental Performance Conditions	Section of NMP which addresses this requirement
Sch. 3, Cond. 10(d)	The Applicant must prepare and implement a Noise Management Plan for the development to the satisfaction of the Secretary. This plan must: (d) include a risk/response matrix to codify mine operational responses to varying levels of risk resulting from weather conditions and specific mining activities;	7.1.3.2
Sch. 3, Cond. 10(e)	The Applicant must prepare and implement a Noise Management Plan for the development to the satisfaction of the Secretary. This plan must: (e) include a noise monitoring program that: - uses attended monitoring to evaluate the performance of the development, including a minimum of four days attended monitoring per quarter at locations agreed to by the Secretary, or more regularly where required; - uses real-time monitoring to support the proactive and reactive noise management system on site; - evaluates and reports on the effectiveness of the noise management system on site; - provides for the annual validation of the noise model for the development	8.1 7.1.4.2 7.1.4.3 7.1.4.4 8.1 8.2 9.2 9.5 9.2
Sch. 3, Cond. 10(f)	The Applicant must prepare and implement a Noise Management Plan for the development to the satisfaction of the Secretary. This plan must: (f) include a protocol that has been prepared in consultation with the owners of nearby mines (Mt Thorley Warkworth, Wambo, Ravensworth and HVO South mines) to minimise the cumulative noise impacts of these mines and the development.	6.2
Sch. 4, Cond. 3(a)	As soon as practicable after obtaining monitoring results showing: (a) an exceedance of any criteria in schedule 4, the Applicant must: - notify each affected landowner and/or tenant of the land (including the tenants of any mine-owned land) in writing of the exceedance; and - provide each affected party with regular monitoring results until the development is again complying with the relevant criteria; to the satisfaction of the Secretary.	8.2 8.2.10
Sch. 5, Cond. 2(a)	The Applicant must ensure that the management plans required under this consent are prepared in accordance with any relevant guidelines, and include; detailed baseline data	Appendix B:
Sch. 5, Cond. 2(b)	a description of: the relevant statutory requirements (including any relevant consent, licence or lease conditions);	5 , 5.1 5.2 5.3 5.4



Consent Condition	Environmental Performance Conditions	Section of NMP which addresses this requirement
	- any relevant limits or performance measures/criteria; - the specific performance indicators that are proposed to be used to judge the performance of, or guide the implementation of, the development or any management measures;	8.1 8.1
Sch. 5, Cond. 2(c)	a description of the measures that would be implemented to comply with the relevant statutory requirements, limits, or performance measures/criteria;	7.1
Sch. 6, Cond. 2(d)	a program to monitor and report on the: - impacts and environmental performance of the development; and - effectiveness of any management measures (see (c) above)	8.1 and 7
Sch. 5, Cond. 2(e)	a contingency plan to manage any unpredicted impacts and their consequences and to ensure that ongoing impacts reduce to levels below relevant impact assessment criteria as quickly as possible;	7.2
Sch. 5, Cond. 2(f)	a program to investigate and implement ways to improve the environmental performance of the development over time;	7.4
Sch. 5, Cond. 2 (g)	a protocol for managing and reporting any: - incidents; - complaints; - non-compliances with statutory requirements; and - exceedances of the impact assessment criteria and/or performance criteria;	9.1.2 9.3 9.1.2 8.2
Sch. 5, Cond. 2(h)	a protocol for periodic review of the plan; and	9
Sch. 5, Cond. 2(i)	A document control table that includes version numbers, dates when the management plan was prepared and reviewed, names and positions of people who prepared and reviewed the management plan, a description of any revisions made and the date of the Secretary's approval.	Document Control
Sch. 5, Cond. 4	Revision of Strategies, Plans and Programs Within 3 months of: (a) the submission of an incident report under Condition 7 below; (b) the submission of an annual review under Condition 9 below; (c) the submission of an audit report under Condition 10 below; and (d) approval of a modification to this consent, the Applicant must review, and if necessary, revise, the strategies, plans, and programs required under this consent to the satisfaction of the Secretary.	9.5



Consent Condition	Environmental Performance Conditions	Section of NMP which addresses this requirement
	Within 6 weeks of conducting any such review, the Applicant must advise the Secretary of the outcomes of the review and provide any documents that have been revised to the Secretary for review and approval. <i>Note: This is to ensure the strategies, plans and programs are updated on a regular basis, and incorporate any recommended measures to improve the environmental performance of the development.</i>	
Sch. 5, Cond. 7	Incident Reporting The Applicant must immediately notify, the Secretary and any other relevant agencies of any incident. Within 7 days of the date of the incident, the Applicant must provide the Secretary and any relevant agencies with a detailed report on the incident, and such further reports as may be requested.	9.1
Sch. 5, Cond. 8	Regular Reporting The applicant must provide regular reporting on the environmental performance of the development on its website, in accordance with the reporting arrangements in any plans or programs approved under the conditions of this consent.	9.1
Sch. 5, Cond. 9	Annual Review By the end of March each year, or other timing as may be agreed by the Secretary, the Applicant must submit a report to the Department reviewing the environmental performance of the development to the satisfaction of the Secretary. This review must: (a) describe the development (including any rehabilitation) that was carried out in the previous calendar year, and the development that is proposed to be carried out over the current calendar year; (b) include a comprehensive review of the monitoring results and complaints records of the development over the previous calendar year, which includes a comparison of these results against the: - the relevant statutory requirements, limits or performance measures/criteria; - requirements of any plan or program required under this consent; - the monitoring results of previous years; and - the relevant predictions in the documents listed in condition 2 of Schedule 3; (c) identify any non-compliance over the past calendar year, and describe what actions were (or are being) taken to ensure compliance; (d) identify any trends in the monitoring data over the life of the development; (e) identify any discrepancies between the predicted and actual impacts of the development, and analyse the potential cause of any significant discrepancies; and (f) describe what measures will be implemented over the current calendar year to improve the environmental performance of the development.	9.1.2



Consent Condition	Environmental Performance Conditions	Section of NMP which addresses this requirement
	The applicant must ensure that copies of the Annual Review are submitted to Council and are available to the Community Consultative Committee (see condition 6 of Schedule 6) and any intended person upon request.	
Appendix 3. Cond. 1	Applicable Meteorological Conditions The criteria in Table 9 and 10 apply under all meteorological conditions except: a) during periods of rain or hail; b) when average wind speed at microphone height exceeds 5 m/s; c) when wind speeds greater than 3 m/s are measured at 10m above the ground level; or d) during temperature inversion conditions greater than 3°C/100m.	8.1
Appendix 3. Cond. 2	Determination of Meteorological Conditions Except for wind speed at microphone height, the data to be used for determining meteorological conditions must be those recorded by the meteorological station located on the site.	8.1
Appendix 3. Cond. 3	Compliance Monitoring Attended monitoring is to be used to evaluate compliance with the relevant conditions of this approval.	8.1
Appendix 3. Cond. 4	Unless otherwise agreed with the Secretary, this monitoring is to be carried out in accordance with the relevant requirements for reviewing performance set out in the NSW Industrial Noise Policy (as amended or replaced from time to time), including the requirements relating to: a) monitoring locations for collection of representative noise data; b) meteorological conditions during which collection of noise data is not appropriate; c) equipment used to collect noise data, and conformation with relevant Australia Standards for such equipment; and d) modifications to noise data collected, including the exclusion of extraneous noise and/or penalties for modifying factors apart from adjustments for duration.	8.1
HVO SOUTH CONSENT (PA 06_0261)		
Sch. 2, Cond. 15	Evidence of Consultation Where conditions of this consent require a document to be prepared in consultation with an identified party, the Applicant must; a) consult with the relevant party prior to submitting the subject document to the Planning Secretary for approval; and	Appendix A:



Consent Condition	Environmental Performance Conditions	Section of NMP which addresses this requirement																																																																															
	b) provide details of the consultation undertaken including: - a description of how matters raised by those consulted have been resolved to the satisfaction of both the Applicant and the party consulted; and - details of any disagreement remaining between the party consulted and the Applicant, and how the Applicant has addressed the matters not resolved.																																																																																
Sch. 3, Cond. 1	Acquisition Upon Request 1. Upon receiving a written request for acquisition from the owner of the land listed in Table 1, the Applicant must acquire the land in accordance with the procedures in conditions 7-9 of schedule 4. <i>Table 1: Land subject to acquisition upon request</i> <table><tr><td>16 - Algie</td><td>38 - Henderson</td></tr><tr><td>32 - Algie (Curlewis)</td><td>45 - Kelly</td></tr><tr><td>Keys (vacant land - Lot 2 DP 770905 and Lot 84 DP 753792)</td><td></td></tr></table> <i>Notes:</i> - The land numbers are as described in the EA, except the one with an asterisk which is as described in EA (Mod 5), and as shown in Appendix 4. - Land numbers 16, 32, 38, 45 and Keys are now mine-owned. - Keys vacant lots are now consolidated as a single lot, Lot 84 DP 1124139. - Land number 45 is referenced as 77 in EA (Mod 5). The Applicant is only required to acquire land number 45 if the owner of this land no longer has voluntary land acquisition rights under the planning approvals for Wambo Mine or Warkworth Mine.	16 - Algie	38 - Henderson	32 - Algie (Curlewis)	45 - Kelly	Keys (vacant land - Lot 2 DP 770905 and Lot 84 DP 753792)		8.2.8																																																																									
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Sch. 3, Cond. 2	The Applicant must ensure that the noise generated by the development does not exceed the noise impact assessment criteria in Table 2 at any residence on privately-owned land, or on more than 25% of any privately-owned land. <i>Table 2: Noise impact assessment criteria dB(A)</i> <table><tr><th rowspan="2">Land Number / Receiver</th><th>Day</th><th>Evening</th><th>Night</th><th>Night</th></tr><tr><th>L_{Aeq}(15 minute)</th><th>L_{Aeq}(15 minute)</th><th>L_{Aeq}(15 minute)</th><th>L_{A1}(1 minute)</th></tr><tr><td>Hunter Valley Gliding Club (when in use)</td><td>55</td><td>55</td><td>55</td><td></td></tr><tr><td>7– Stapleton (Cheshunt East)</td><td>41</td><td>41</td><td>41</td><td>45</td></tr><tr><td>10 – Moses (Wandewoi)</td><td>37</td><td>37</td><td>37</td><td>45</td></tr><tr><td colspan="5">Maison Dieu residences</td></tr><tr><td>16 – Algie</td><td>42</td><td>42</td><td>42</td><td>45</td></tr><tr><td>32 – Algie (Curlewis)</td><td></td><td></td><td></td><td></td></tr><tr><td>5 – Bowman, 47 – Moxey, 61 – Shearer and all other land on Shearer's Lane</td><td>41</td><td>41</td><td>41</td><td>45</td></tr><tr><td>34 – Ernst</td><td>40</td><td>40</td><td>40</td><td>45</td></tr><tr><td>50 – Nelson</td><td></td><td></td><td></td><td></td></tr><tr><td>24 – Clifton and Edwards and residences located within 250 metres of this residence, not otherwise listed in this table</td><td>40</td><td>40</td><td>40</td><td>45</td></tr><tr><td>Maison Dieu residences within 1 kilometre of Shearers Lane, not otherwise listed in this table</td><td>39</td><td>39</td><td>39</td><td>45</td></tr><tr><td>127* – Riley</td><td>37</td><td>37</td><td>37</td><td>45</td></tr><tr><td>All other Maison Dieu residences</td><td>35</td><td>35</td><td>35</td><td>45</td></tr><tr><td colspan="5">Jerrys Plains Road residences</td></tr></table>	Land Number / Receiver	Day	Evening	Night	Night	L _{Aeq} (15 minute)	L _{Aeq} (15 minute)	L _{Aeq} (15 minute)	L _{A1} (1 minute)	Hunter Valley Gliding Club (when in use)	55	55	55		7– Stapleton (Cheshunt East)	41	41	41	45	10 – Moses (Wandewoi)	37	37	37	45	Maison Dieu residences					16 – Algie	42	42	42	45	32 – Algie (Curlewis)					5 – Bowman, 47 – Moxey, 61 – Shearer and all other land on Shearer's Lane	41	41	41	45	34 – Ernst	40	40	40	45	50 – Nelson					24 – Clifton and Edwards and residences located within 250 metres of this residence, not otherwise listed in this table	40	40	40	45	Maison Dieu residences within 1 kilometre of Shearers Lane, not otherwise listed in this table	39	39	39	45	127* – Riley	37	37	37	45	All other Maison Dieu residences	35	35	35	45	Jerrys Plains Road residences					8.2
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Sch. 3, Cond. 4	Additional Noise Mitigation Measures Upon receiving a written request from: An owner of land listed in Table 1 (unless the landowner has requested acquisition or where a negotiated noise agreement established under this consent is in place); or	8.2 , 7.2 , 9.4																																																																																										



Consent Condition	Environmental Performance Conditions	Section of NMP which addresses this requirement														
	• An owner of land listed in Table 4 (except where a negotiated noise agreement established under this consent is in place); or • Any residence on privately-owned land where subsequent noise monitoring show the noise generated by the project is greater than or equal to the equivalent criteria in Table 5 (except where a negotiated noise agreement established under this approval is in place) The Applicant must implement reasonable and feasible noise mitigation measured (such as double glazing, insulation, and/or air conditioning) at any residence on the land in consultation with the landowner. These measures must be consistent with the measures outlined in the <i>Voluntary Land Acquisition and Mitigation Policy for State Significant Mining, Petroleum and Extractive Industry Development</i> (NSW Government, 2014), as amended, and proportionate to the level predicted impact. If within 3 months of receiving this request from the landowner, the Applicant and the landowner 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 Planning Secretary for resolution. Within 3 months from the date of this consent, the Applicant must notify all applicable landowners that they are entitled to receive noise mitigation measures, to the satisfaction of the Secretary. <i>Table 4: Land subject to additional noise mitigation upon request</i> <table><tr><td>7 – Stapleton (Cheshunt East)</td></tr><tr><td><i>Maison Dieu residences</i></td></tr><tr><td>17 – Algie</td></tr><tr><td>5 – Bowman, 47 – Moxey, 61 – Shearer and all other land on Shearer's Lane</td></tr><tr><td>34 – Ernst</td></tr><tr><td>50 – Nelson</td></tr><tr><td>24 – Clifton and Edwards and residences located within 250 metres of this residence, not otherwise listed in this table</td></tr><tr><td>Maison Dieu residences within 1 kilometre of Shearers Lane</td></tr><tr><td><i>Jerrys Plains Road residences</i></td></tr><tr><td>36 – Smith (ex Garland)</td></tr><tr><td>3 – Elisnore, 4 – Muller, 31 – Cooper (Kilburnie)</td></tr><tr><td>310* – Northcote, 312* – Carmody, 317* – Gee and 463* – Carter</td></tr><tr><td><i>Warkworth residences</i></td></tr><tr><td>All privately-owned Warkworth residences</td></tr></table> <i>Notes:</i> • The land numbers and receiver references are described in the EA, except those with an asterisk which are as described in EA (Mod 5), and as shown in Appendix 4.	7 – Stapleton (Cheshunt East)	<i>Maison Dieu residences</i>	17 – Algie	5 – Bowman, 47 – Moxey, 61 – Shearer and all other land on Shearer's Lane	34 – Ernst	50 – Nelson	24 – Clifton and Edwards and residences located within 250 metres of this residence, not otherwise listed in this table	Maison Dieu residences within 1 kilometre of Shearers Lane	<i>Jerrys Plains Road residences</i>	36 – Smith (ex Garland)	3 – Elisnore, 4 – Muller, 31 – Cooper (Kilburnie)	310* – Northcote, 312* – Carmody, 317* – Gee and 463* – Carter	<i>Warkworth residences</i>	All privately-owned Warkworth residences	
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All privately-owned Warkworth residences																



Consent Condition	Environmental Performance Conditions	Section of NMP which addresses this requirement
	Land numbers 4, 7, 17, 17, 24, 36, 310, 312 and 463 are now mine-owned.	
Sch. 3, Cond. 5	Operating Conditions The Applicant must: - take all reasonable steps to minimise construction, operational, low frequency, road and on-site rail noise of the development; - take all reasonable steps to minimise the noise impacts of the development during meteorological conditions when the noise criteria in this consent do not apply (see Appendix 4); - operate a comprehensive noise management system 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 the implementation of both proactive and reactive noise mitigation measures to ensure compliance with relevant conditions of this consent; - carry out regular noise monitoring to determine whether the development is complying with the relevant conditions of this consent; and - regularly assess the noise monitoring data, and modify or stop operations on the site to comply with the relevant conditions of this consent, to the satisfaction of the Secretary.	7.1.2
Sch. 3, Cond. 6	Noise Management Plan The Applicant must prepare a Noise Management Plan for the development to the satisfaction of the Secretary. This plan must: - be submitted to the Planning Secretary for approval within 3 months of the determination of Modification 5, unless otherwise agreed by the Planning Secretary; - be prepared in consultation with the EPA by a suitably qualified and experienced person/s; - describe the measures to be implemented to ensure - compliance with the noise criteria and operating conditions in this consent; - best practice management is being employed; and - the noise impacts of the development are minimised during meteorological conditions under which the noise criteria in this consent do not apply; - describe the noise management system in detail; and - include a monitoring program that; - uses a combination of real-time and supplementary attended monitoring to evaluate the performance of the project - includes a program to calibrate and validate the real-time noise monitoring results with the attended monitoring results over time; - adequately supports the noise management system; and	a. 13.3 b. 13.3 6.1 Appendix C c. 5.4 7.1.4.4 8.2 8.2.4 d. 7.1.4 7.1.5 , 8.1.1 8.1.2 8.2.4 8.2.5 e. 7.1.4.2 7.1.4.3 7.1.4.4 8.1 8.2 , 9.2 , 9.5 f. 6.2



Consent Condition	Environmental Performance Conditions	Section of NMP which addresses this requirement
	- includes a protocol for identifying noise incidents and notifying the Department and relevant stakeholders of any such incident; and f) include a protocol that has been prepared in consultation with the owners of nearby mines to minimise cumulative noise impacts. The Applicant must implement the Noise Management Plan as approved by the Planning Secretary.	
Sch. 4, Cond. 2	Notification of Landowners If the results of monitoring required in Schedule 3 identify that impacts generated by the development are greater than the relevant impact assessment criteria in Schedule 3, except where this is predicted in the documents listed in condition 2 of Schedule 2 or where a negotiated agreement has been entered into in relation to that impact, then the Applicant must, within 2 weeks of obtaining the monitoring results, notify the Planning Secretary, the affected landowners and tenants (including tenants of mine-owned properties) accordingly, and provide quarterly monitoring results to each of these parties until the results show that the development is again complying with the criteria in Schedule 3.	9.1.2 8.2.10
Sch.4 Cond. 4	Independent Review If a landowner considers the development to be exceeding the impact assessment criteria in Schedule 3, then he/she may ask the Planning Secretary in writing for an independent review of impacts of the project on his/her land. If the Planning Secretary is satisfied that an independent review is warranted, the Applicant must within 3 months of the Planning Secretary's decision: a) consult with the landowner to determine his/her concerns; b) commission a suitably qualified, experience and independent person, whose appointment has been approved by the Planning Secretary, to conduct monitoring on the land, to: - determine whether the development is complying with the relevant impact assessment criteria in Schedule 3; and - identify the source(s) and scale of any impact on the land, and the development's contribution to this impact; and c) give the Planning Secretary and landowner a copy of the independent review.	8.2.8
Sch.4 Cond. 5	If the independent review determines that the development is complying with the relevant impact assessment criteria in Schedule 3, then the Applicant may discontinue the independent review with the approval of the Planning Secretary. If the Independent review determines that the development is not complying with the relevant impact assessment criteria in Schedule 3, and the development is primarily responsible for this non-compliance, then the Applicant must: a) implement all reasonable and feasible measure, in consultation with the landowner, to ensure that the development complies with the relevant criteria, and conduct further monitoring to determine whether these measures ensure compliance: or	8.2.8



Consent Condition	Environmental Performance Conditions	Section of NMP which addresses this requirement
	b) secure a written agreement with the landowner to allow exceedances of the relevant impact assessment criteria, to the satisfaction of the Planning Secretary. However, if the further monitoring referred to under paragraph (a) above determines that the development is complying with the relevant impact assessment criteria, the Applicant may discontinue the independent review with the approval of the Planning Secretary. If the independent review determines that the development is not complying with the relevant land acquisition criteria in Schedule 3, and that the development is primarily responsible for this non-compliance, then the Applicant must offer to acquire all or part of the landowner's land in accordance with the procedures in conditions 7-9 below, to the satisfaction of the Planning Secretary.	
Sch.4 Cond 6	If the independent review determines that the relevant impact assessment criteria in Schedule 3 are being exceeded, but that more than one mine is responsible for this non-compliance, then the Applicant shall, together with the relevant mine/s: a) implement all reasonable and feasible measures, in consultation with the landowner, to ensure that the relevant impact assessment criteria are complied with, and conduct further monitoring to determine whether these measures ensure compliance; or b) secure a written agreement with the landowner and other relevant mines to allow exceedances of the relevant impact assessment criteria in Schedule 3, to the satisfaction of the Planning Secretary. If the further monitoring referred to under paragraph a) above determines that the development is complying with the relevant impact assessment criteria in Schedule 3, then the Applicant may discontinue the independent review with the approval of the Planning Secretary. If the independent review determines that the relevant land acquisition criteria in Schedule 3 are being exceeded, but that more than one mine is responsible for this non-compliance, then the Applicant shall acquire all or part of the landowner's land on as equitable basis as possible with the relevant mine/s, in accordance with the procedures in conditions 7-9 below, to the satisfaction of the Planning Secretary.	8.2.8
Sch.5 Cond. 1A (a)	Management Plan Requirements The Applicant must ensure that the management plans required under this consent are prepared in accordance with any relevant guidelines, and include: a) summary of relevant background or baseline data;	Appendix B:
Sch.5 Cond. 1A (b)	b) a description of: the relevant statutory requirements (including any relevant approval, licence or lease conditions);	Table 5-1 8.2



Consent Condition	Environmental Performance Conditions	Section of NMP which addresses this requirement
	- any relevant limits or performance measures/criteria; and - the specific performance indicators that are proposed to be used to judge the performance of, or guide the implementation of, the development or any management measures;	
Sch.5 Cond. 1A (c)	c) a description of the measures that would be implemented to comply with the relevant statutory requirement, limits, or performance measures/criteria;	7.1
Sch.5 Cond. 1A (d)	d) a program to monitor and report on the: impacts and environmental performance of the development; and effectiveness of any management measures (see paragraph (c) above);	8.1 8.2
Sch.5 Cond. 1A (e)	e) a contingency plan to manage any unpredicted impacts and their consequences and to ensure that ongoing impacts reduce to levels below relevant impact assessment criteria as quickly as possible;	7.2
Sch.5 Cond. 1A (f)	f) a program to investigate and implement ways to improve the environmental performance of the development over time	7.4
Sch.5 Cond. 1A (g)	g) a protocol for managing and reporting any: - Incidents; - Complaints; - Non-compliances with statutory requirements; and - Exceedances of the impact assessment criteria and/or performance criteria;	8 ,9
Sch.5 Cond. 1A (h)	h) a protocol for periodic review of the plan; and	9
Sch.5 Cond. 1A (i)	i) a document control table that includes version number, dates when the management plan was prepared and reviewed, names and positions of the person/s who prepared and reviewed the management plan, a description of any revisions made and the date of the Planning Secretary's approval. <i>Note: The Planning Secretary may wave some of these requirements if they are unnecessary or unwarranted for particular management plans.</i>	Document Control Table
Sch. 5, Cond 2	Reporting The Applicant must immediately notify the Department and any other relevant agencies after it becomes aware of an incident. The notification must be in writing via the Department's Major Projects Website and identify the development (including the development applications number and name) and set out the location and nature of the incident.	9.1.2
Sch. 5, Cond 3	Non-Compliance Reporting	9.1



Consent Condition	Environmental Performance Conditions	Section of NMP which addresses this requirement
	Within seven days of becoming aware of a non-compliance, the Applicant must notify the Department of the non-compliance. The notification must be in writing via the Department's Major Projects Website and identify the development (including the development application number and name), set out the condition of this consent that the development is non-compliant with, why it does not comply and the reasons for the non-compliance (if known) and what actions have been, or will be, undertaken to address the non-compliance. Note: A non-compliance which has been identified as an incident does not need to also be notified as a non-compliance.	
Sch. 5, Cond 4	Annual Review By the end of March each year, the Applicant must review the environmental performance of the development to the satisfaction of the Planning Secretary. This review must: (a) describe the development that was carried out in the previous calendar year, and the development that is proposed to be carried out over the next year; (b) include a comprehensive review of the monitoring results and complaints records of the development over the previous calendar year, which includes a comparison of these results against: - the relevant statutory requirements, limits or performance measures/criteria; - the requirements of any plan or program required under this consent; - the monitoring results of previous years; and - the relevant predictions in the documents listed in condition 2 of Schedule 2; (c) identify any non-compliance over the last year, and describe what actions were (or are being) taken to ensure compliance; (d) identify any trends in the monitoring data over the life of the development; (e) identify any discrepancies between the predicted and actual impacts of the project, and analyse the potential cause of any significant discrepancies; (f) describe what measures will be implemented over the next year to improve the environmental performance of the development; and g) evaluate and report on the effectiveness of environmental management of the development.	9.1
Sch. 5, Cond 9	Access to Information The Applicant must, for the life of the development: (a) make the following information publicly available on its website: - the documents listed in condition 2 of Schedule 2; - current statutory approvals for the development; - approved strategies, plans or programs required under the conditions of this consent; - a comprehensive summary of the monitoring results of the development, which have been reported in accordance with the various plans and programs approved under the conditions of this consent;	9.1



Consent Condition	Environmental Performance Conditions	Section of NMP which addresses this requirement
	- a summary of the current stage and progress of the development; - contact details to enquire about the development or to make a complaint; - complaints register, which is to be updated on a monthly basis; - minutes of CCC meetings; - the last five annual reviews; - any independent environmental audit, and the Applicant's response to the recommendations in any audit; - any other matter required by the Planning Secretary; and (b) keep this information up to date, to the satisfaction of the Planning Secretary.	
Appendix 4A Cond. 1	Applicable Meteorological Conditions The noise criteria in Table 2 are to apply under all meteorological conditions except the following: a) where 3°C/100 metres (m) lapse rates have been assessed, then: - wind speeds greater than 3 metres/second (m/s) measure at 10m above ground level; - temperature inversion conditions between 1.5°C and 3°C/100 m and wind speeds greater than 2 m/s measure at 10 m above the ground level; or - temperature inversion conditions greater than 3°C/100 m. b) where Pasquill Stability Classes have been assessed, then: - wind speeds greater than 3 m/s at 10 m above ground level; - stability category F temperature inversion conditions and wind speeds greater than 2 m/s at 10m above ground level; or - stability category G temperature inversion conditions.	8.1.2
Appendix 4A Cond. 2	Determination of Meteorological Conditions Except for wind speed at microphone height, the data to be used for determining meteorological conditions shall be that recorded by the meteorological station required under condition 24 of schedule 3.	8
Appendix 4A Cond. 3	Compliance Monitoring Attended monitoring is to be used to evaluate the compliance with the relevant conditions of this consent. Note: The Planning Secretary may direct that the frequency of attended monitoring increase or decrease at any time during the life of the development.	8.2
Appendix 4A Cond. 4	Compliance Monitoring Unless otherwise agreed by the Planning Secretary, this monitoring must be carried out in accordance with the relevant requirements for reviewing performance set out in the NSW industrial Noise Policy (2000, or its latest version) in particular the requirements relating to:	8.2



Consent Condition	Environmental Performance Conditions	Section of NMP which addresses this requirement
	a) monitoring locations for the collection of representative noise data; b) meteorological conditions during which collection of noise data is not appropriate; c) equipment used to collect noise data, and conformity with the Australia Standards relevant to such equipment. d) modifications to noise data collected, including for the exclusion of extraneous noise and/or penalties for modifying factor for low-frequency noise to be applied during compliance testing at any individual residence if low frequency noise is present (in accordance with the NSW Noise Policy for Industry (2017, or its latest version) Fact Sheet C) and before comparison with the specified noise levels in this consent.	



Table 5-2- Statement of Commitments Addressed

SOC reference	Commitments	Section of Noise Management Plan which addresses this requirement
HVO NORTH CONSENT (DA 450-10-2003)		
Noise and vibration	Permanent real time directional noise monitoring will be undertaken at Jerrys Plains with back-to-base feed of data. The system will include trigger alarms, which are set to an appropriate trigger level for Jerrys Plains. In the event of an alarm, the Open Cut Examiner will be notified and operational practices reviewed to minimise the potential for noise increasing beyond compliance levels.	7.1.4
Noise and vibration	HVO will participate in ongoing research towards the use of predictive weather forecast data as a definitive tool to manage noise.	7.1.3
Noise and vibration	The system of mining and overburden emplacement permission rules being developed at HVO South will be extended to HVO North, once these have been developed and implemented. This system will feed real time site weather data into an information system. The operator of the system will be provided with instructions on whether mining or emplacement is to be allowed or restricted during certain wind conditions.	7.1.3
Noise and vibration	Pro-active contingency mine planning will be used to plan for events such as prevailing wind conditions that have the potential to increase noise beyond acceptable levels. The management and scheduling of mobile equipment will also be undertaken with consideration to prevailing meteorological conditions.	7.1.2 and 7.1.3.2
Noise and vibration	Attended noise monitoring will be undertaken quarterly and as required due to community requests.	8.1 and 9.3



5.2 | ENVIRONMENT PROTECTION LICENCE

The *Protection of the Environment Operations Act 1997 (NSW)* (PoEO Act) is the principal piece of legislation regulating pollution (including noise pollution) emissions in NSW. EPL 640 for HVO was issued on 29 September 2000 by the EPA under the PoEO Act.

Consent Condition	Environmental Performance Conditions	Section of NMP which addresses this requirement																											
EPL640																													
P1.4	The following points referred to in the table below are identified in this licence for the purposes of weather and/or noise monitoring and/or setting limits for the emission of noise from the premises. <table> <tr> <th>EPA identification no.</th><th>Type of monitoring point</th><th>Location description</th></tr> <tr> <td>36</td><td>Noise monitoring</td><td>NMP 1A at co-ordinates 317994 6399021 (Easting, Northing) shown as NM1A on Figure 3.</td></tr> <tr> <td>37</td><td>Noise monitoring</td><td>NMP 1B at co-ordinates 318535 6398157 (Easting, Northing) shown as NM1B on Figure 3.</td></tr> <tr> <td>38</td><td>Noise monitoring</td><td>NMP 1C at co-ordinates 318570 6399332 (Easting, Northing) shown as NM1C on Figure 3.</td></tr> <tr> <td>39</td><td>Noise monitoring</td><td>NMP 2 at co-ordinates 321128 6396863 (Easting, Northing) shown as NM2 on Figure 3.</td></tr> <tr> <td>40</td><td>Noise monitoring</td><td>NMP 3 at co-ordinates 306014 6399906 (Easting, Northing) shown as NM3 on Figure 3.</td></tr> <tr> <td>41</td><td>Noise monitoring</td><td>NMP 4 at co-ordinates 305485 6401177 (Easting, Northing) shown as NM4 on Figure 3.</td></tr> <tr> <td>42</td><td>Noise monitoring</td><td>NMP 5 at co-ordinates 303718 6402475 (Easting, Northing) shown as NM5 on Figure 3.</td></tr> <tr> <td>43</td><td>Noise monitoring</td><td>NMP 6 at co-ordinates 303120 6403452 (Easting, Northing) shown as NM6 on Figure 3.</td></tr> </table>	EPA identification no.	Type of monitoring point	Location description	36	Noise monitoring	NMP 1A at co-ordinates 317994 6399021 (Easting, Northing) shown as NM1A on Figure 3.	37	Noise monitoring	NMP 1B at co-ordinates 318535 6398157 (Easting, Northing) shown as NM1B on Figure 3.	38	Noise monitoring	NMP 1C at co-ordinates 318570 6399332 (Easting, Northing) shown as NM1C on Figure 3.	39	Noise monitoring	NMP 2 at co-ordinates 321128 6396863 (Easting, Northing) shown as NM2 on Figure 3.	40	Noise monitoring	NMP 3 at co-ordinates 306014 6399906 (Easting, Northing) shown as NM3 on Figure 3.	41	Noise monitoring	NMP 4 at co-ordinates 305485 6401177 (Easting, Northing) shown as NM4 on Figure 3.	42	Noise monitoring	NMP 5 at co-ordinates 303718 6402475 (Easting, Northing) shown as NM5 on Figure 3.	43	Noise monitoring	NMP 6 at co-ordinates 303120 6403452 (Easting, Northing) shown as NM6 on Figure 3.	8.1.2
EPA identification no.	Type of monitoring point	Location description																											
36	Noise monitoring	NMP 1A at co-ordinates 317994 6399021 (Easting, Northing) shown as NM1A on Figure 3.																											
37	Noise monitoring	NMP 1B at co-ordinates 318535 6398157 (Easting, Northing) shown as NM1B on Figure 3.																											
38	Noise monitoring	NMP 1C at co-ordinates 318570 6399332 (Easting, Northing) shown as NM1C on Figure 3.																											
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43	Noise monitoring	NMP 6 at co-ordinates 303120 6403452 (Easting, Northing) shown as NM6 on Figure 3.																											
L5.1	Noise limits Noise generated at the premises must not exceed the noise limits presented in the table below.	8.1 8.1.2																											



Location	Day LAeq(15min)	Evening LAeq(15min)	Night LAeq(15min)	Night LA1(1min)
EPA Point 36 in NMG 1A			41	46
EPA Point 37 in NMG 1B			40	46
EPA Point 38 in NMG 1C			39	46
EPA Point 39 in NMG 2			37	46
EPA Point 40 in NMG 3			39	46
EPA Point 41 in NMG 4			39	46
EPA Point 42 in NMG 5			40	46
EPA Point 43 in NMG 6			40	46
Residence 160 - Bowman in NMG 1A	41	41	41	45
Residence 256 - Moxey in NMG 1A	41	41	41	45
Residence 161 - Shearer in NMG 1A	41	41	41	45
Residence 162, 163, 258, 260 & 261 on Shearers Lane in NMG 1A	41	41	41	45
Residence 121 - Ernst in NMG 1B	40	40	40	45
Residence 123 - Nelson in NMG 1B	40	40	40	45
Residence 120 - Clifton and Edwards in NMG 1B and residences within 250m of this residence, not otherwise listed in this table	40	40	40	45
Maison Dieu residences 244, 245, 246 & 247 in NMG 1C within 1km of Shearers Lane, not otherwise listed in this table	39	39	39	45
Residence 127 - Riley in NMG 2	37	37	37	45
All other Maison Dieu residences not listed in this table	35	35	35	45
Residence 323 - Bennett in NMG 4	40	40	40	46
Residence 322 - Nichols in NMG 4	40	40	40	46
Residence 308 - Cooper in NMG 4	39	39	39	46
Residence 310 - Northcote in NMG 4	39	39	39	45
Residence 311 - Elisnore in NMG 4	39	39	39	46
Residence 317 - Gee in NMG 4	39	39	39	46
Residence 434 - Murphy in NMG 4	39	39	39	46
Residence 436 - Skinner in NMG 4	39	39	39	46
Residence 321 - Hayes in NMG 4	40	40	40	46



Consent Condition	Environmental Performance Conditions				Section of NMP which addresses this requirement																				
	<table><tr><td>Jerrys Plains Village and Jerrys Plains West residences 399, 379, 376, 378, 380-383, 387-409, 411, 413-415, 419-423, 362 - 375, 377, 384, 385, 417, 418, 424, 354, 339-353, 355-361, 334, 328, 329, 331-333, 335-338, 326, 327, 330, 437 & 438</td><td>40</td><td>40</td><td>40</td><td>46</td></tr><tr><td>All Jerrys Plains Road residences not otherwise listed in this table</td><td>35</td><td>35</td><td>35</td><td>46</td></tr><tr><td>All other privately owned land in Warkworth Village</td><td>43</td><td>43</td><td>43</td><td>45</td></tr><tr><td>All other privately owned land</td><td>35</td><td>35</td><td>35</td><td>45</td></tr></table>				Jerrys Plains Village and Jerrys Plains West residences 399, 379, 376, 378, 380-383, 387-409, 411, 413-415, 419-423, 362 - 375, 377, 384, 385, 417, 418, 424, 354, 339-353, 355-361, 334, 328, 329, 331-333, 335-338, 326, 327, 330, 437 & 438	40	40	40	46	All Jerrys Plains Road residences not otherwise listed in this table	35	35	35	46	All other privately owned land in Warkworth Village	43	43	43	45	All other privately owned land	35	35	35	45	
Jerrys Plains Village and Jerrys Plains West residences 399, 379, 376, 378, 380-383, 387-409, 411, 413-415, 419-423, 362 - 375, 377, 384, 385, 417, 418, 424, 354, 339-353, 355-361, 334, 328, 329, 331-333, 335-338, 326, 327, 330, 437 & 438	40	40	40	46																					
All Jerrys Plains Road residences not otherwise listed in this table	35	35	35	46																					
All other privately owned land in Warkworth Village	43	43	43	45																					
All other privately owned land	35	35	35	45																					
L5.2	For the purposes of Condition L5.1: a) Day is defined as the period from 7am to 6pm Monday to Saturday and 8am to 6pm Sundays and Public Holidays, b) Evening is defined as the period from 6pm to 10pm; and c) Night is defined as the period from 10pm to 7am Monday to Saturday and 10pm to 8am Sundays and Public Holidays.				8.2.3																				
L5.3	The noise limits set out in condition L5.1 apply under all meteorological conditions except for the following: a) Wind speeds greater than 3 metres/second at 10 metres above the ground level; b) Stability category F temperature inversion conditions and wind speeds greater than 2 metres/second at 10 metres above ground level; c) Stability category G temperature inversion conditions; or d) During periods of rain or hail.				8.1.2																				
L5.4	For the purposes of condition L5.3: a) Data recorded by the meteorological station installed on the premises at EPA Identification Point 19 or 22, whichever is more representative, must be used to determine meteorological conditions; and b) Temperature inversion conditions (stability category) are to be determined by the methods referred to in Fact Sheet D of the Noise Policy for Industry (2017).				8.1.2																				
M1.2	All records required to be kept by this licence must be:				8.3																				



Consent Condition	Environmental Performance Conditions	Section of NMP which addresses this requirement								
	a) In a legible form, or in a form that can readily be reduced to a legible form; b) Kept for at least 4 years after the monitoring or event to which they relate took place; and c) Produced in a legible form to any authorised officer of the EPA who asks for them.									
M1.3	The following records must be kept in respect of any samples required to be collected for the purposes of this licence: a) The date(s) on which the sample was taken; b) The time(s) at which the sample was collected; c) The point at which the sample was taken; and d) The name of the person who collected the sample.	8.3								
M10.1	To assess compliance with the noise limits specified within this licence, the licensee must undertake operator attended noise monitoring at each specified noise monitoring point in accordance with the table below. POINT 36,37,38,39,40,41,42,43 <table><tr><th>Assessment period</th><th>Minimum frequency in a reporting period</th><th>Minimum duration within assessment period</th><th>Minimum number of assessment period</th></tr><tr><td>Night</td><td>Monthly</td><td>15 minutes</td><td>1 operation day</td></tr></table>	Assessment period	Minimum frequency in a reporting period	Minimum duration within assessment period	Minimum number of assessment period	Night	Monthly	15 minutes	1 operation day	8.2.4
Assessment period	Minimum frequency in a reporting period	Minimum duration within assessment period	Minimum number of assessment period							
Night	Monthly	15 minutes	1 operation day							
M10.2	To assess compliance with condition L5.1, attended noise monitoring must be undertaken in accordance with Conditions L5.2 to L5.4: a) At EPA points 36, 37, 38, 39, 40, 41, 42 and 43 identified in P1.4; and b) Occur every calendar month in a reporting period; and c) Occur during one nighttime period as defined in the Noise Policy for Industry 2017 for a minimum of 15 minutes at each location from a).	8.2.4								
M10.3	Where required in writing by the EPA, the Licensee must carry out attended monitoring at any sensitive receivers referred to in condition L5.1 in addition to the monitoring required by Condition M10.1.	8.2.4								
R4.5	The Licensee must report any exceedance of Licence noise limits to the EPA by telephoning the Environment Line service on 131555 or emailing info@epa.nsw.gov.au as soon as practicable after the exceedance becomes known to the Licensee or to one of the Licensee's employees or agents.	9.1.2								
R4.6	Within 7 days of notifying the EPA of an exceedance of Licence noise limits, the Licensee must provide the EPA a report in writing that explains the cause of the exceedance and the actions taken to prevent future exceedance of noise limits.	9.1.2								
R4.7	An authorised officer of the EPA may make a written request for further details in relation to any of the above matters if it is not satisfied with the report provided by the Licensee at Condition R4.6. The Licensee must provide such further details to the EPA within the time specified in the request.	9.1.2								



Consent Condition	Environmental Performance Conditions	Section of NMP which addresses this requirement
R5.4	Noise Monitoring Report The Licensee must provide the EPA with its Annual Return an annual noise compliance assessment report prepared by an appropriately qualified acoustic consultant. The report must include an assessment of any exceedance of noise limits and justification that the noise monitoring points identified in Condition P1.4 are still representative of the sensitive receivers within the noise monitoring groups.	9.2

5.3 | RELEVANT STANDARDS AND GUIDELINES

Guidelines and standards applying to noise at HVO include:

- Noise Policy for Industry (NSW EPA, 2017) superseding the New South Wales Industrial Noise Policy (INP, 2000); and
- Australian Standard AS 1055 'Acoustics, Description and Measurement of Environmental Noise'.

5.4 | PRINCIPLES AND FRAMEWORK

- Noise management on-site is governed by a framework - policy, plan, do, measure, review;
- "Plan" component of framework – undertake risk analysis of noise impacts;
- Complaints management;
- Dynamic improvement/evolution;
- Reactive and proactive;
- Co-ordination/cumulative impact management;
- "Measure" component of framework – regular monitoring; and
- "Review" component of framework - reporting and analysis. Best management practice

Best management practice in this NMP is defined as practices used to manage noise impacts that are consistent with the following:

- The measure should firstly aim to prevent noise impacts, and where that is not practicable, to generally reduce impacts to the environment as a whole;
- The measure is reasonably accessible and is developed on a scale which allows implementation in the Project, under economically and technically viable conditions, taking into consideration the costs and advantages; and
- Of the options available, it is the most effective in achieving a generally high level of protection of the environment as a whole.

HVO will implement best management practice measures to minimise the operational, road and on-site rail traffic noise associated with the development.

6 | CONSULTATION

6.1 | GOVERNMENT AGENCIES

Condition 10(a), Schedule 3, of the HVO North Approval and Condition 6(b), Schedule 3 of the HVO South Approval both require this NMP be prepared in consultation with the EPA and the Secretary.

Correspondence undertaken in relation to this revision of the Noise Management Plan is presented in Table 6-1. A copy of the most recent consultation records are shown in Appendix A:.



Table 6-1: External Stakeholder Consultation

Date	Stakeholder	Summary of Consultation
02/07/2014	Bill George (EPA)	EPA advised HVO in writing that the EPA does not require HVO to consult with it regarding the development of management plans required under planning consents including this Noise Management Plan
8/07/2015	Chris Knight (DPIE)	HVO received correspondence from DPE regarding required updated for NMP V1.4
24/08/2015	Chris Knight (DPIE)	HVO submitted revised Noise Management Plan V1.4 to DP&E for review
25/08/2015	Chris Knight (DPIE)	Approval of Noise Management Plan V1.4 received from DP&E
04/02/2016	Chris Knight (DPIE)	HVO submitted revised Noise Management Plan V1.5 to DP&E for review
8/03/2016	W Jones (DPIE)	Approval of Noise Management Plan V1.5 received from DP&E
26/03/2018	EPA	Correspondence was forwarded to the EPA inviting consultation on NMP V3.1
18/06/2018	Mark Hartwell (EPA)	EPA advised HVO in writing that the EPA does not require HVO to consult with it regarding the development of plans required under planning consents including this Noise Management Plan V3.1 (see Appendix A).
19/02/2019	Howard Reed (DPIE)	Correspondence received via letter approving NMP V3.1
07/04/2020	DPE Portal	V3.2 NMP submitted through DPE portal for review
12/04/2021	Lauren Evans (DPIE)	Letter received requesting further RFI following submission of NMP
09/07/2021	Daniel Martin (DPIE)	Letter sent to DPE with updates made to NMP following RFI received 12/04/2021.
22/12/2021	Stephen O'Donoghue (DPE)	Correspondence received via letter approving NMP V3.5
06/10/2022	Tegan Cole (DPE)	Correspondence received via email regarding required amendments to submitted NMP
05/04/2024	Wayne Jones (DPHI)	Correspondence received via Major Projects Portal requesting further information for NMP V4.0
17/03/2025	Stephen O'Donoghue (DPHI)	Correspondence received via letter approving NMP V4.0

6.2 | NEARBY MINES

HVO South and HVO North are managed as a single operation, with common controls implemented on a whole-of-site basis. As such, a formal communication protocol between HVO North and HVO South is not necessary.

HVO has liaised with the neighbouring Ravensworth Complex regarding options for co-operation to minimise cumulative noise impacts. With regard to cumulative noise impacts on nearby shared sensitive receptors, under an informal agreement, HVO and Ravensworth Complex will co-operate with each other to minimise cumulative noise impacts on private residences to the east of HVO. HVO and Ravensworth Complex will act in good faith when informed by neighbouring mines of any noise alarms at the relevant locations. In the same manner as for the investigation of a complaint or to validate a noise alarm, HVO and Ravensworth Complex will investigate the circumstances as described by the neighbouring mine.

HVO and United Wambo share monitoring data from the nearby sensitive receptor location at Moses Crossing under an informal agreement.

A protocol between neighbouring mining companies has also been developed where personnel from each mine meet on a regular basis to discuss noise, blasting and air quality management at site and methods to address cumulative impacts. The protocol was developed by Mt Owen Glendell Operations (MGO), Ravensworth, Ashton, Rixs' Creek and Integra Underground. The meeting is held quarterly, with representatives from the following mines invited to each meeting:

- HVO
- Ravensworth
- Ashton
- United Wambo
- Wambo
- MGO
- Rixs' Creek
- Integra Underground.

Furthermore, the neighbouring MTW mine was formerly managed through the same shared services team as HVO, and as such access to relevant shared environmental monitoring data including real-time monitoring continues despite separation of site management.

7 | IMPLEMENTATION

7.1 | OPERATIONAL CONTROLS

In order to mitigate any potential impacts from noise creating activities, a number of management controls will be implemented throughout the life of HVO.

7.1.1 | STANDARD MITIGATION MEASURES

The following controls will occur under standard conditions (24-hour mining operations; construction operations during daylight hours):

- plant, machinery and haul roads will be maintained in good condition according to manufacturer's specification and repaired as required so that equipment remains in a sound operating condition;
- noise impacts will be considered during risk analysis and change management procedures for substantive changes to operating conditions;
- sound power level testing of equipment will be undertaken to inform HVO of degradation in sound attenuation equipment, and to aid in planning of any future attenuation programs;
- activities that generate complaints will be monitored and modified if real time or supplementary monitoring results confirm that Approval noise criteria are potentially being exceeded;
- environmental inductions will provide relevant employees an overall awareness of potential impacts on sensitive receptors from equipment and its operation;



- noise emission levels will be considered where relevant in awarding contracts and purchasing new equipment;
- ongoing implementation of predictive meteorological forecasting;
- attended monitoring and reporting of noise will be undertaken on a monthly basis at representative sites by a qualified acoustic consultant; and
- Real-time monitoring using both directional and non-directional monitors with frequency filtering capabilities will be employed at locations representative of sensitive receptor locations. Noise alarms will be generated, received and actioned to effectively manage noise emissions.

Measures to manage HVO noise emissions are divided into two categories:

- proactive; and
- reactive.

The pro-active and reactive measures are summarised below.

7.1.2 | PROACTIVE MEASURES

7.1.2.1 | SOUND ATTENUATED FLEET

HVO currently operates and maintains a fleet of HME (Heavy Mining Equipment) which is predominantly sound attenuated.

7.1.2.2 | SOUND POWER CONTROL

Sound power control will be managed by a combination of sound power testing and a routine maintenance schedule.

In accordance with Schedule 3, Condition 9 (c) of the HVO North Approval, HVO will maintain the effectiveness of any installed attenuation equipment.

7.1.2.3 | SOUND POWER LEVEL TESTING

Sound power level testing (sound screening) will be undertaken on 1/3 of the attenuated HME fleet annually.

In this way, 100% of attenuated equipment will be screened on a rolling three-year cycle. The results of sound screening will be used for the following:

- to inform HVO of equipment which is experiencing degradation in attenuation equipment such that emissions exceed normal and/or modelled operational noise levels necessitating repair or withdrawal from service; and
- to inform HVO of fleet types and units which can be preferentially deployed into or removed from noise risk areas; and

Where equipment is deemed to be in excess of normal operational noise level for the fleet type, HVO maintenance staff will inspect and assign the piece of equipment to the appropriate maintenance schedule.

The outcomes of ongoing Sound Power Level Testing shall be reported in the Annual Review.



7.1.2.4 | ROUTINE MAINTENANCE SCHEDULING

Routine equipment inspections include assessment of the condition of the attenuation components.

If, during the services and inspections, a major noise attenuation component is found to be absent, worn or broken to the point of being partially or totally ineffective, that piece of equipment will be repaired or replaced.

Where immediate equipment repair is not possible, the equipment will be placed on low-risk (restricted) duties until such time as repair / replacement of the defective part is undertaken.

7.1.3 | PROACTIVE PLANNING

A key objective of effective noise management is to allow as much as possible for continuation of mining operations 24/7.

Under certain meteorological conditions, noise enhancement can be experienced at sensitive receptors, potentially at levels which exceed relevant project approval noise limits. During these times, effective reactive management strategies are required to help achieve compliance with noise criteria while minimising impacts on mine productivity.

To provide sufficient operational flexibility, multiple dump options are identified in the HVO Mine Plan which can be utilised during instances of adverse meteorological conditions (including during periods of noise enhancement). Once identified, these alternative options can be utilised reactively following receipt of a trigger for action (see Section 7.1.1).

7.1.3.1 | PREDICTIVE METEOROLOGICAL FORECASTING

The requirement for use of predictive meteorological forecasting is satisfied through the development and use of noise enhancement prediction graphs which depict the likelihood of noise enhancing conditions being experienced at sensitive receptor locations throughout the upcoming night shift. At the time of submission of this NMP, graphs were available for the noise pathways to:

- Maison Dieu residences;
- Warkworth;
- Moses Crossing residences; and
- Jerrys Plains residences.

The graphs are able to be used as both a proactive informative tool, and assisting with response to any real-time alarm or received complaint. The graphs are part of the daily meteorological forecast for the site that is emailed to all relevant personnel on site that are added to the distribution list. The graphs are also included in daily prestart meeting slides for relevant personnel, including operational mining personnel and environmental department personnel.

7.1.3.2 | MINING OPERATIONS RISK / RESPONSE CONTROLS

Schedule 3, Condition 10(d) of the HVO North Approval requires a risk / response matrix to codify mine operational responses to varying levels of risk resulting from weather conditions and specific mining operations.

Current understanding of known noise risk areas and standard controls includes:



Risk

- Truck exhaust and engine noise from using high or exposed dumps in close proximity to Jerrys Plains or Maison Dieu (Cheshunt, Riverview and Mitchell Pit)

Response

- Use of noise attenuated trucks in high risk locations
- Use of low or shielded dumping options in high-risk areas at nighttime
- Providing noise management training to relevant personnel
- Using a network of real time noise monitors incorporating automatic alarms that will enable operations to respond to increasing noise levels;
- Modifying operations in a timely manner, using site procedures following notification of an alarm

Risk

- Noise enhancing atmospheric conditions causing increased noise at distance from mining operations.

Response

- Using a network of real time noise monitors incorporating automatic alarms that will enable operations to respond to increasing noise levels;
- Modifying operations in a timely manner, using site procedures following notification of an alarm
- Review of weather forecasts for potential noise enhancement conditions and impacts on sensitive receptors;
- Providing noise management training to relevant personnel

Risk

- Instantaneous noise from loading of trucks, equipment horns, dozer tracks and bucket impact noise from excavators or shovels.

Response

- Using a network of real time noise monitors incorporating automatic alarms that will enable operations to respond to increasing noise levels;
- Modifying operations in a timely manner, using site procedures following notification of an alarm
- Providing noise management training to relevant personnel

7.1.4 | REACTIVE MEASURES

Pro-active management actions are supported by a system of reactive management measures. These measures utilise a combination of real time noise monitoring and operational surveillance of mining equipment and conditions to help achieve compliance with noise limits at all times.



7.1.4.1 | SOUND POWER LEVEL TESTING – AD HOC

Where inspections identify equipment which is perceived to be experiencing degradation of sound attenuation, ad-hoc sound power level testing will be arranged as required to assess it. HVO maintenance staff will inspect the equipment, and where a defect is identified, it shall be actioned accordingly. Where immediate equipment repair is not possible, the equipment will be placed on low-risk (restricted) duties until such time as repair is undertaken.

7.1.4.2 | REAL TIME NOISE MONITORING NETWORK

The existing real time monitoring network is comprised of directional monitors. All five units are currently utilised on a day-to-day basis, informing operations in real time of HVO noise levels at the receiver locations. These units are located at:

- Maison Dieu;
- Knodlers Lane;
- Moses Crossing;
- Jerrys Plains; and
- Long Point

The real-time system is subjected to a number of processes to confirm correct function and data accuracy, including:

- Daily status checks (Monday – Friday, except public holidays), confirming power and communications;
- Quarterly review of data to evaluate the monitoring network performance: and
- Routine calibration and equipment maintenance in accordance with Australian Standards (quarterly calibration and testing and tagging) is undertaken by third-party monitoring technicians.

Ad-hoc calibration and breakdown support are arranged as soon as practicable where required.

7.1.4.3 | VALIDATION OF REAL TIME MONITORING LOCATIONS

To determine that the prescribed real time monitoring locations adequately represent all privately owned land surrounding HVO, validation surveys and monitoring of results are undertaken on a quarterly basis by a noise consultant.

The surveys will be conducted upon request from landowners by way of either attended or unattended monitoring at private residence(s) (subject to landowner agreement) for a nominal period to enable comparison with measured levels at the corresponding real time monitoring location. Where monitoring data indicates that real time triggers are not ensuring noise levels below the relevant impact assessment criteria at a particular residence they will be reviewed.

7.1.4.4 | REAL TIME NOISE ALARMS

HVO operates and maintains a series of unattended, real time, directional noise monitors. The real time system reports directional, low pass (<1000Hz for Barnowl noise monitors and <630Hz for the Environmental Noise Compass) LAeq and LA90 data respectively to site personnel via the Supervisory Control and Data Acquisition (SCADA) system.



Required by Conditions 9(a) and 10(e), Schedule 3, of the HVO North Approval and Conditions 5(c) and 6(e), Schedule 3 of the HVO South Approval real time noise alarms are considered to be best practice use of real time monitoring systems, providing a warning mechanism to operational personnel of levels that are approaching a relevant noise criterion.

To help achieve compliance with the relevant consent conditions which require HVO to manage noise emissions during meteorological conditions under which the noise criteria do not apply, the noise alarm process operates to more conservative meteorological triggers than those meteorological conditions listed in the consent under which the noise criteria do not apply.

Specifically, noise alarms will continue to operate during periods temperature inversions, and winds up to 4 m/s.

Table 7-1 summarises HVO's Noise Trigger Levels and Table 7-2 details HVO's response in relation to those trigger levels.

HVO will respond to each valid alarm within 1 hour of receipt during active mining operations. Action responses will be evaluated by the Environment department on a regular basis to confirm average response times and adequacy of this timing and revise if necessary.

Table 7-1 Real time noise alarms and trigger levels for action

HVO Noise Trigger Levels					
Monitoring Location	Source Direction	Receptor Noise Limit (dB(A))	Trigger Mechanism ¹	Level 1 Amber Trigger (dB(A))	Level 2 Red Trigger (dB(A))
Maison Dieu	HVO	41	A	36	38
Knodlers Lane	HVO	37	A	35	37
Jerrys Plains	West Pit	35	B	33	35
Moses Crossing	West Pit	39	C	NA ²	36
	Carrington Pit	39			36
	South Pit	39			36
Long Point	South Pit	35	A	33	35

¹ Trigger Type A - Alarms generated following measurement of two (2) consecutive 15min directional low pass (<1000Hz) LA_{eq} readings from the source direction of interest **and** under conservative meteorological parameters (wind speeds under 4m/sec, and no rainfall).

¹ Trigger Type B - Alarms generated following measurement of two (2) consecutive 15min directional low pass (<630Hz) LA₅₀ readings from the source direction of interest and under conservative meteorological parameters (wind speeds under 4m/sec, and no rainfall). Alarms will only be triggered when the LA₁₀ is less than 40dB from the direction of the Golden Highway to exclude influence of road traffic noise

¹ Trigger Type C – Alarms generated when omnidirectional LA₉₀ level is above red trigger level and directional LA_{eq} low pass (<1000Hz) value is indicating directional data is dominant noise source (±2dB of LA₉₀)

² Amber Trigger not considered valuable given the trigger mechanism is derived from LA₉₀ Data



Table 7-2 - Real time noise alarms Trigger Action Response Plan

Normal Conditions	Level 1 – Amber	Level 2 - Red
Noise Levels OK – Maintain current controls	Operational changes to reduce noise commence. Check alarm details to determine source. Notify OCE to conduct inspection and if noise source is from HVO implement operational modifications using the hierarchy: Change Fleet Type Change Haul Route Drop Equipment Change Dump	Level 1 actions implemented. Decisive action required Shut down task Continue to monitor and progressively restart if noise below trigger

Note: In the event that noise levels do not change significantly following introduction of significant operational change, mining operations will be restarted, accompanied by continued surveillance of real-time noise monitoring data.

7.1.5 | ATTENDED MONITORING

7.1.5.1 | LOCATION AND FREQUENCY

Attended noise monitoring will be undertaken at locations representative of privately owned residences in neighbouring communities, including Maison Dieu and Jerrys Plains. Attended noise monitoring data will be primarily used to evaluate compliance with noise criteria. The same data will be periodically compared against the real time system as a check of its representativeness.

Monitoring will be undertaken in accordance with the requirements of Appendix 3 of the HVO North Approval and Appendix 4A of the HVO South Approval and in accordance with the EPA 'Approved methods for the measurement and analysis of environmental noise in NSW'.

7.1.5.2 | PROCEDURES FOR VARYING THE RATES AND LOCATIONS

As part of the quarterly attended noise monitoring validation process, real-time noise levels will be assessed against relevant criteria. If levels are shown to be trending close to relevant noise limits as outlined in Table 8-2 a campaign of additional attended monitoring will be scheduled.

7.2 | MANAGEMENT OF UNPREDICTED IMPACTS

In the event that unpredicted noise impacts are found to be occurring at nearby privately owned residences, HVO will consider management options on a case-by-case basis such as:

- Entering into an impact cooperation agreement with the landowner;
- Review of management controls and monitoring systems specific to the affected residence;
- Mitigation options (such as insulation, installation of double glazed windows and/or air conditioning units); or
- Acquisition of the affected property.

7.3 | RAIL NOISE

HVO will advise ARTC (and any other relevant rail service provider) that:

- the HVO site may only 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; and
- rolling stock to be supplied (existing or newly manufactured) to HVO must be designed, constructed and maintained to minimise noise.

HVO will review any publicly available environmental audit reports against the relevant EPL and liaise with ARTC or the relevant service provider regarding rectification of any non-compliance related to noise conditions. This review will be undertaken every three years as a component of the Independent Environmental Audit.

7.4 | CONTINUOUS IMPROVEMENT

HVO will continuously seek to make further improvements to noise management by way of improving existing controls and investigating new and emerging technologies, implementing new controls where required, and thoroughly investigating any exceedance and non-compliance events.

HVO will continue to develop action plans to reduce the risk of non-compliance with the relevant noise conditions of the Approvals. Identified actions will be documented in the site improvement plan, recorded in the action management system, and tracked to completion.

8 | MEASUREMENT AND EVALUATION

8.1 | MONITORING PROGRAM

The monitoring program provides a summary of the noise monitoring program for HVO. The program includes a protocol for evaluating compliance with the noise criteria, and a representation of the properties which have been captured in this noise monitoring program. The monitoring locations with agreement from the Secretary, are subject to change and will be updated periodically to align with management and compliance needs and to accommodate progression of mining and changes to local landholdings.



8.1.1 | MONITORING LOCATIONS

Noise monitoring is undertaken at locations shown on Figure 8-1 at the frequency defined in Table 8-1 below.

Table 8-1 - Noise Monitoring Program

Parameter	Frequency	Monitor Location	Sampling Method
Attended Noise L_{A1} (1 min) L_{Aeq} L_{Ceq}^2 1/3 octave L_{Aeq} spectrum	Minimum of twelve (12) monitoring events per annum (nominally once per month, at least two weeks apart) ⁴	Jerrys Plains East Jerrys Plains Village Jerrys Plains West ³ Moses Crossing Knodlers Lane Long Point/Dights Crossing Maison Dieu Redmanvale Road ³ Shearers Lane HVGC	Noise Policy for Industry (NSW EPA, 2017) AS1055.2018
Attended Noise L_{A1} (1 min) L_{Aeq} L_{Ceq}^2 1/3 octave L_{Aeq} spectrum	1 additional night per quarter against HVO North Consent Criteria only (to achieve 16 monitoring events per annum for HVO North)	Jerrys Plains East Moses Crossing Jerrys Plains Village Jerrys Plains West Redmanvale Road ³	Noise Policy for Industry (NSW EPA, 2017) AS1055.2018
Real Time Noise ¹ L_{Aeq} L_{A90}	Continuous	Directional Monitors Knodlers Lane Moses Crossing Maison Dieu (ENC) Jerrys Plains (ENC) Long Point	Directional monitors used. AS1055.2018



Parameter	Frequency	Monitor Location	Sampling Method
Meteorological Monitoring	Continuous	HVO Corp. Meteorological Station Cheshunt Meteorological Station	AS3580.14:2014
¹ Real time noise parameters are assessed for both All Pass and Low Pass (<1000Hz for Barnowl noise monitors and <630Hz for the Environmental Noise Compass monitors). ² Application of Low Frequency modification penalties as per Noise Policy for Industry (EPA 2017) ³ Monitoring at Redmanvale Road is only undertaken in the event of exceedance measured at any other Jerrys Plains location. ⁴ Additional monitoring events undertaken following non-compliance may occur within one week of the previous measurement. Note: HVO may relocate noise monitors as required or replace with new and like equipment.			



8.1.2 | NOISE LIMITS FOR ASSESSMENT

Consent noise limits for assessment are detailed in Table 8-2.

Table 8-2 - Noise Limits

Monitoring Location	Consent Area	L _{Aeq} Impact Assessment Criteria (dB)	L _{Aeq} Land Acquisition Criteria (dB)	L _{A1} (1min) Criteria (dB)
Knodlers Lane	North	35	41	46
	South	40		45
Maison Dieu	North	35	41	46
	South	39		45
Shearers Lane	North	35	41	46
	South	41		45
Moses Crossing	North	39	41	46
	South	39		45
Jerrys Plains Village	North	40	41	46
	South	35		45
Jerrys Plains West	North	40	41	46
	South	35		45
Jerrys Plains East	North	39	41	46
	South	38		45
HVGC	North	NA	NA	NA
	South	55	NA	NA
Long Point/Dights Crossing	North	35	41	46
	South	37		45
Redmanvale Road	North	35	41	46
	South	35		45

HVO North Pit consent noise limits do not apply under the following meteorological conditions:

- During periods of rain or hail;
- When average wind speed at microphone height exceeds 5 m/s;
- When wind speeds greater than 3 m/s are measured at 10 m above ground level; or
- During temperature inversion conditions greater than 3°C/100 m (G stability class).



HVO South Pit consent noise limits do not apply under the following meteorological conditions:

- Where Pasquill Stability Classes have been assessed, then:
- Wind speeds greater than 3 m/s at 10 m above ground level;
- Stability category F temperature inversion conditions and wind speed greater than 2 m/s at 10 m above ground level; or
- Stability category G temperature inversion conditions.

Data recorded by the HVO Corporate or Cheshunt meteorological stations will be used to determine these meteorological conditions. Data will be sourced from the meteorological station that is considered to be most representative for each noise monitoring location. Temperature inversions (stability category) will be determined by the methods referred to in Fact Sheet D of the Noise Policy for Industry (2017). Attended monitoring for EPL noise limits is undertaken at monitoring locations detailed in Table 8-3 and shown in Figure 8-1. Corresponding EPL monitoring location naming is detailed in Table 8-3.

Table 8-3 - EPL Noise Limits

Monitoring Location – EPA ID	Monitoring Location – NMP ID	EPL Point	L _{Aeq} Impact Assessment Criteria (dB)	L _{A1} (1min) Criteria (dB)
NMP1A	Shearers Lane	36	41	46
NMP1B	Knodlers Lane	37	40	46
NMP1C	Maison Dieu	38	39	46
NMP2	Long Point (Dights Crossing)	39	37	46
NMP3	Moses Crossing	40	39	46
NMP4	Jerrys Plains East	41	39	46
NMP5	Jerrys Plains Village	42	40	46
NMP6	Jerrys Plains West	43	40	46

EPL noise limits for assessment are detailed in Table 8-3. EPL noise limits do not apply under the following meteorological conditions:

- Wind speeds greater than 3 metres/second at 10 metres above the ground level;
- Stability category F temperature inversion conditions and wind speeds greater than 2 metres/second at 10 metres above ground level;
- Stability category G temperature inversion conditions; or
- During periods of rain or hail.

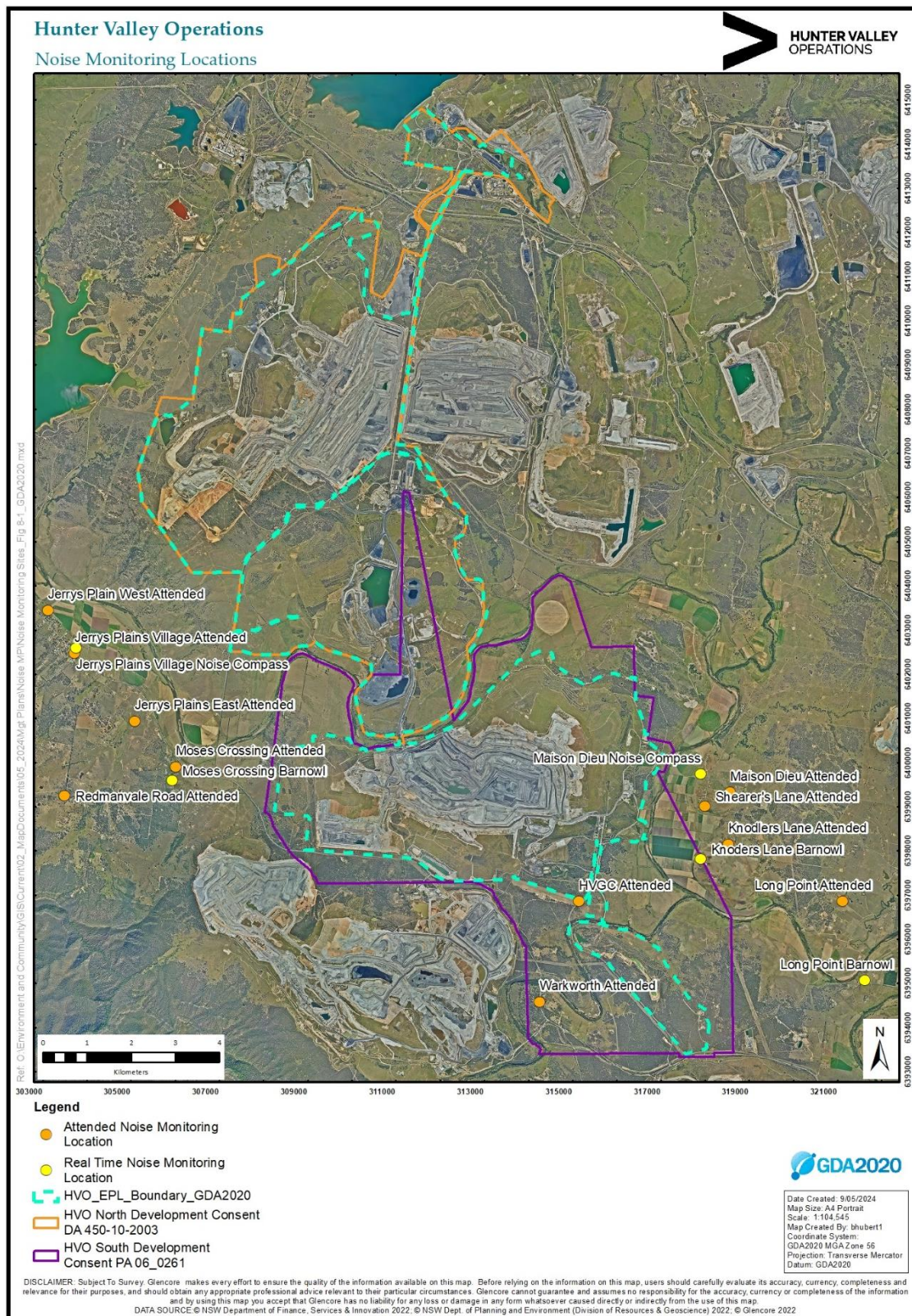


Figure 8-1 - Noise Monitoring Locations

Number: HVOOC-1797567310-4028

Status: Approved

Effective: 02/04/2025

Owner: Superintendent - Environment and Community

Version: 2.0

Review: 02/04/2028

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8.2 | PROTOCOL FOR EVALUATING COMPLIANCE

This section outlines the key considerations in evaluating compliance with the relevant noise criteria in the approvals.

8.2.1 | MINING NOISE

As a preface to discussion of affectation and compliance it is appropriate to consider some specific characteristics of mining noise in the Hunter Valley. These are:

- Most receptors are located a considerable distance from mine sites with regard to noise propagation (greater than 1000 metres);
- Mining noise is typically inaudible during the day period;
- Received levels of mining noise usually vary greatly from one night to the next at any receptor location. Different meteorological conditions from one night to the next are the primary cause of different received levels at receptors.
- Mining noise from a large open cut operation, received at a receptor, is typically a continuum with minor event noises that are usually not very emergent;
- The received mining noise spectrum generally does not have any significant content (if any) above 1000 Hertz; and
- Other noise sources at a receptor location can often be considerably louder than received mining noise. This is particularly true for noise events (dogs, cows, cars etc.), which influence the total L_{Aeq} .

8.2.2 | NOISE AFFECTATION / NON-COMPLIANCE

The Approvals stipulate noise criteria which must be met during the life of the development(s). Assessment of compliance with these noise criteria is undertaken as per the noise monitoring described in this document.

The approvals however do not stipulate requirements or give guidance on noise affectation, or the frequency or duration of any non-compliance which would constitute noise affectation.

Primarily, determination of noise affectation is a comparison of measured noise levels against consent conditions under a governing set of meteorological conditions, with the results either meeting consent condition or not.

The EPA's Noise Policy for Industry (NPfI) discusses the setting of noise criteria with the overall outcome seeking to ensure the noise limits can be met for 90% of the time and protect the majority of the community (90%) from being highly annoyed by industrial noise.

8.2.3 | MONITORING PERIODS

Extensive experience has shown that daytime or evening criteria are rarely, if ever exceeded and that night-time criteria is the limiting criteria. Noise enhancing conditions that occur at night have the greatest potential to cause exceedances. Evening is a transitional period from day to night, from the hours of 6pm and 10pm. Meteorological conditions at 6pm are usually as per day (during summer), but as per night at 10pm with the highest level of mining noise received offsite for the majority of times during the night period only.



Consequently, unless there are compelling reasons to require monitoring during the day or evening periods at a specific location, requirement to measure during these periods is suspended. The requirement can be reactivated by the Department at any time following valid complaints or concerns. Periods are defined in Table 8-4

Table 8-4 - Definition of Day / Evening / Night Periods

Period	Days	Times
Day	Monday to Saturday	7am to 6pm
	Sundays and Public Holidays	8am to 6pm
Evening	Monday to Sunday	6pm to 10pm
Night	Monday to Saturday	10pm to 7am
	Sundays and Public Holidays	10pm to 8am

8.2.4 | MONITORING

In accordance with Condition 3, Appendix 3 of the HVO North Approval and Condition 3, Appendix 4A of the HVO South Approval, attended monitoring is to be used to evaluate compliance with the relevant conditions of the approvals. Attended monitoring will be conducted from a selection of ten sites as detailed in the HVO Monitoring Program. Attended monitoring will be completed once per calendar month with the exception of the required additional quarterly attended monitoring as per Schedule 3 Condition 10e of the HVO North Development consent. Additional attended monitoring will be completed if directed in writing by the EPA.

Monitoring will be undertaken in accordance with the Noise Policy for Industry (NSW EPA 2017) guidelines, and Australian Standard AS 1055 'Acoustics, Description and Measurement of Environmental Noise'.

8.2.5 | RESULTS ACCEPTANCE

Following the completion of attended monitoring at each site, the noise consultant shall make an assessment of the 15-minute measurement results against relevant limits. Where the result is determined as being below the relevant criteria, the noise consultant will move on to the next monitoring site.



If any result has the potential to exceed the relevant limit and is attributable to the mine operation and taken in or outside of valid meteorological conditions (refer to 8.1.2 |) then once the consultant has reviewed meteorological data and determined that meteorological conditions were valid at the time of measurement, the following steps will be followed:

- a. The noise consultant will contact HVO dispatch and advise there has been a potential exceedance of the noise criterion at the nominated location.
- b. HVO will internally investigate the potential noise source contributing to the exceedance and implement mitigation strategies where required to reduce noise.
- c. Within 75 minutes after the first reading, the noise consultant will take another 15-minute reading at the same location.
 - i. If the second reading is below the relevant criteria, the noise consultant will record the result and notify HVO dispatch.
 - ii. If the second reading also exceeds the relevant noise criteria, the noise consultant will record the result and notify HVO dispatch that the noise levels at that location remains above the criterion.
- d. If the second 15-minute monitoring result is confirmed to be an exceedance of relevant criteria once the measurements have been evaluated against the applicable meteorological data, an additional monitoring test will be scheduled to be undertaken at the applicable assessment location within one week during the same time period.

Once the exceedance is confirmed, HVO will follow the applicable reporting processes as outlined in Section 9.1.2 |.

8.2.6 | NOISE MODIFICATION FACTORS

Corrections for noise characteristics will be applied in accordance with *Fact Sheet C: Corrections for annoying noise characteristics* of the Noise Policy for Industry (NSW EPA, 2017).

8.2.7 | SLEEP DISTURBANCE ($L_{A1, 1MIN}$) CRITERIA

Management of noise sources which have the potential to cause exceedances of sleep disturbance ($L_{A1, 1min}$) criteria are generally one-off, emergence type events (such as loud bangs associated with dropping material into a truck, or a short term engine surge), which are difficult to control through engineered means. These events cannot be managed in real-time through the use of real-time monitoring systems however may be managed through use of controls described in Section 7.1.3.2 |. As a result, it is not possible to ensure compliance with these criteria as it is for the $L_{Aeq15min}$ parameter.

8.2.8 | INDEPENDENT REVIEW AND LAND ACQUISITION PROCESS

Where the owner of privately-owned land has reasonable grounds to believe that HVO is exceeding noise limits, they may request an independent review from the Planning Secretary, as per Conditions 4, 5 and 6 of Schedule 4 of the HVO North Approval or Conditions 4, 5 and 6 of Schedule 4 of the HVO South Approval.

If the independent review determines that HVO is not complying with the relevant project acquisition limit, then upon receiving written request from the landowner, HVO will act in accordance with Conditions 7 and 8 of Schedule 4 of the HVO North Approval or Conditions 7, 8 and 9 of Schedule 4 of the HVO South Approval, whichever is relevant.



8.2.9 | REPRESENTATION OF PRIVATE RECEPTORS

In order to assess compliance against impact assessment and land acquisition criteria, attended noise monitoring will be undertaken at or near privately owned residences which are considered representative of neighbouring properties.

Attended noise monitoring results from each monitoring location are assessed against the relevant noise criterion for receptors in the vicinity of each monitoring location. Details of residences within each monitoring “zone” are maintained and updated periodically by HVO. The attended monitoring locations and the neighbouring properties represented by each are shown in Figure 8-2.

HVO has negotiated agreements in place with private landholders listed in Table 2 or Table 9 of the HVO Development Consents. Their respective agreements have been forwarded to the Department and EPA. Privately owned land that is subject to a negotiated noise management agreement is shown in Figure 8-2.

8.2.10 | NOTIFICATION OF LANDOWNERS/TENANTS

To comply with the relevant requirements for tenants and landowners as per Condition 3(a), Schedule 4 of HVO North Approval (DA 450-10-2003) HVO will:

- As soon as practicable after obtaining monitoring results showing an exceedance of any criteria in Schedule 4, the HVO Environment and Community Manager or nominated delegate will notify any affected landowner and/or tenant of the land (including the tenants of any mine-owned land) in writing of the exceedance and provide each affected party with regular monitoring results until the development is again complying with the relevant criteria previously exceeded.

Note: affected landowners/tenants are those within the applicable noise monitoring group area for the relevant attended noise monitoring location.

To comply with the relevant requirements for tenants and landowners as per Condition 2, Schedule 4 of the HVO South Approval (PA 06_0261), HVO will:

- If the results of monitoring required in Schedule 3 identify that impacts generated by the development are greater than the relevant impact assessment criteria in Schedule 3, except where this is predicted in the documents listed in condition 2 of Schedule 2 or where a negotiated agreement has been entered into in relation to that impact, then the HVO Environment and Community Manager or nominated delegate within 2 weeks of obtaining the monitoring results, will notify the Planning Secretary, the affected landowners and tenants (including tenants of mine-owned properties) accordingly, and provide quarterly monitoring results to each of these parties until the results show that the development is again complying with the criteria in Schedule 3.

Note: affected landowners/tenants are those within the applicable noise monitoring group area for the relevant attended noise monitoring location.

8.3 | MONITORING RECORDS

All noise monitoring records are maintained in accordance with EPL 640 and maintained on the premises for a period of 4 years. The following is recorded for each sample:

- The date on which the sample was taken;
- The time at which the sample was collected;
- The point at which the sample was taken; and
- The name of the person who collected the sample

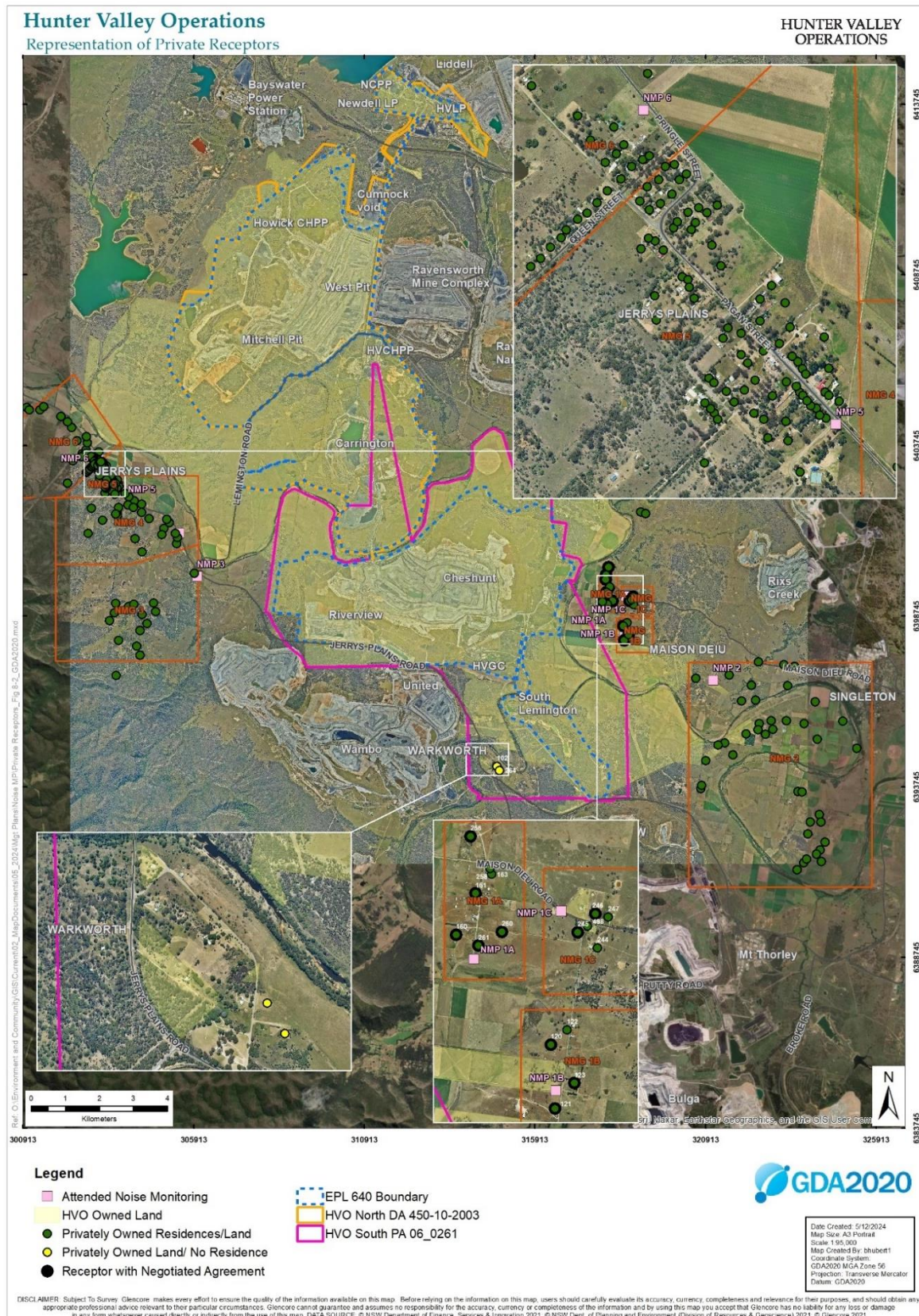
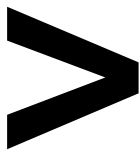


Figure 8-2 - Representation of Private Receptors

9 | REPORTING AND REVIEW

9.1 | REPORTING

9.1.1 | INTERNAL REPORTING

Determining exceedances of noise criteria will be undertaken in accordance with the protocol for evaluating compliance (Section 8.2).

The Environment & Community Superintendent/Coordinator (or delegate) will report any potential or confirmed exceedance / non-compliance to relevant site personnel, including the General Manager, Manager – Mining and Manager Environment & Community.

Non-compliance events will be investigated. Where additional controls are identified for implementation to reduce the risk of repeated non-compliance, these will be assigned to the relevant accountable person. Actions are tracked to completion.

9.1.2 | EXTERNAL REPORTING

DA 450-10-2003

The Environment & Community Manager (or Delegate) will immediately notify the Secretary and any other relevant agencies of any incident relating to noise. Within 7 days of becoming aware of the incident, HVO will provide the Planning Secretary and any other relevant agencies with an incident report via the Departments Major Projects Website, and such further reports as may be requested.

PA 06_0261

The Environment & Community Manager (or Delegate) will immediately notify the Department and any other relevant agencies of any incident relating to noise. Within 7 days of becoming aware of a non-compliance, HVO will notify DPHI in writing via the Departments Major Projects Website and identify the development (including the development application number and name), set out the condition of this consent that the development is non-compliant with, why it does not comply and the reasons for the non-compliance (if known) and what actions have been, or will be, undertaken to address the non-compliance.

Note: A non-compliance which has been notified as an incident does not need to also be notified as a non-compliance

EPL 640

Any exceedance of EPL licence limits will be reported to the EPA by telephoning the Environment Line service on 131 555 or emailing info@epa.nsw.gov.au as soon as practicable after the exceedance becomes known to HVO or a HVO employee or agent. A report will be provided to the EPA within 7 days that explains the cause of the exceedance and the actions taken to prevent future occurrences.

HVO will also report any incidents to relevant agencies as required by Condition 7 in Schedule 5 (HVO North) and Condition 2 in Schedule 5 (HVO South).

Affected residences will be notified in writing in the event of a confirmed non-compliance with noise conditions.

Noise monitoring data, collected in accordance with this NMP will be made available on the HVO website (<http://www.hvo.com.au>).

A summary of noise monitoring results will also be presented to the HVO Community Consultative Committee (CCC) meetings which are held four times per calendar year. The CCC will also be briefed on any issues relating to noise which may arise from time to time.

This NMP will be available on the HVO website.

9.2 | ANNUAL ASSESSMENT AND MODEL VALIDATION

The Annual Review prepared each year for HVO will include a summary of noise monitoring results and noise related complaints for the corresponding year.

Schedule 3, Condition 10(e) requires an “annual validation of the noise model for the development”. This will be achieved by way of comparing real time and attended monitoring data against predicted noise levels. The outcomes of the annual model validation will be reported in the HVO Annual Review.

HVO will provide an annual noise compliance assessment report prepared by an appropriately qualified acoustic consultant with its Annual Return prior to 30 May each year. The report will include an assessment of any exceedance of noise limits and justification that the noise monitoring points are still representative of the sensitive receptors within the noise monitoring groups.

9.3 | COMPLAINTS MANAGEMENT

Community Complaints are lodged via the Complaints and Blasting Hotline, 1800 888 733. The hotline number will be prominently displayed on the HVO website and regularly advertised in the local newspaper. The Complaints and Blasting Hotline will be in operation 24 hours per day, seven days a week.

Complaints will be recorded and investigated by HVO staff. All other complaints lodged via letter, in person or by fax, will also be recorded and investigated by the Environment & Community personnel.

All complaints will be investigated, and, where the investigation identifies potential non-compliance with a consent or licence condition, mitigating action will be taken.

The details of all noise complaints, and any mitigating actions taken, will be circulated to senior management. Where requested, follow-up correspondence with the complainant will be provided.

HVO will maintain a register of complaints in accordance with the conditions of EPL 640 relating to the handling of pollution complaints. The register will be updated monthly.

9.4 | DISPUTE RESOLUTION

In the event of a disagreement between HVO and a member of the community, the Environment and Community Manager (or delegate) will undertake the necessary liaison and communication to reach a resolution. In the event of dispute arising from findings of consented conditions relating to property inspections, investigations and/or land acquisition matters, these will be referred to the Secretary of DPHI in accordance with the relevant consent conditions.

9.5 | REVIEW

As per Schedule 5, Condition 4A. of PA 06_0261, and Schedule 5 Condition 4 of DA 450-10-2003, this NMP will be reviewed, and revised if necessary, within three months of the submission of an Annual Review, incident report, audit or any approval or modification to the conditions of the consent.

Within 6 weeks of conducting any such review, HVO will advise the Planning Secretary of the outcomes of the review and provide any documents (where required) that have been revised to the Planning Secretary for review and approval.

Any major amendments to this NMP that affect its application will be undertaken in consultation with the appropriate regulatory authorities and stakeholders. Minor changes such as formatting edits may be made with version control on the Project website.

10 | ACCOUNTABILITIES

Table 10-1 - Roles and Responsibilities

Roles	Accountabilities
Manager Mining	Direction and operational oversight
Manager Technical Services	Allocation of contingency options in consideration of noise impacts
Manager Environment and Community	Implementation of Management Plan Technical Oversight
Environment and Community Officer	Assistance with exceedance investigation Scheduled reporting Monitoring data review Operation of predictive tools Manage maintenance of unattended monitoring network Technical oversight
Environment and Community Superintendent/Coordinator	Administer noise monitoring program Non-compliance reporting Management plan reviews Technical oversight Coordinate exceedance investigation
Maintenance Manager	Maintenance of Heavy Mining Equipment and repair of sound suppression Coordination of Sound Power Testing
Supervisors / Open Cut Examiners	Operational Modification following trigger Respond to community complaints
Mine Monitoring / Control (Dispatch)	Receipt of noise alarms Receipt of community complaints Preferential placement of sound suppressed equipment
Consultants	Attended noise monitoring Sound power level testing Technical oversight

11 | REVIEW AND IMPROVEMENT

12 | DEFINITIONS

NAME/TITLE	DESCRIPTION

13 | DOCUMENT INFORMATION

Relevant legislation, standards and other reference information must be regularly reviewed and monitored for updates and should be included in the site management system. Related documents and reference information in this section provides the linkage and source to develop and maintain site compliance information.

13.1 | RELATED DOCUMENTS

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

NUMBER	TITLE

13.2 | REFERENCE INFORMATION

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

REFERENCE	TITLE
	Project Approval – DA 450-10-2003
	Project Approval – PA 06_0261
	EIS titled 'Hunter Valley Operations – West Pit Extension and Minor Modifications', dated October 2003, and prepared by Environmental Resources Management Australia;

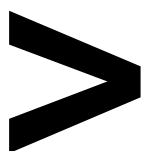
REFERENCE	TITLE
	The section 96(1A) modification application for the 'Hunter Valley Loading Point', dated 30 June 2005, and prepared by Matrix Consulting;
	'Carrington Pit Extended Statement of Environmental Effects', dated October 2005, and prepared by Environmental Resources Management Australia;
	'Carrington West Wing Environmental Assessment', dated 1 October 2010, and prepared by EMGA Mitchell McLennan (CWW EA);
	Environmental assessment titled 'Hunter Valley Operations South Coal Project Environmental Assessment Report', Volumes 1, 2 and 3, dated January 2008, including the response to submissions;
	Environmental Assessment titled 'Raising of Lake James Dam', dated October 2009, and the response to submissions (including its Statement of Commitments) dated November 2009;
	Environmental Assessment titled 'Proposed Modification to HVO South Project', dated May 2010, and the response to submissions dated August 2010;
	Environmental Assessment titled 'Hunter Valley Operations South Project Approval – Modification 4 – Administrative Omissions and Clarifications' [sic], dated 26 September 2012;
	Environmental Assessment titled 'Hunter Valley Operations South Project Approval – Modification 5 – Dedication of Lands for Offsets' [sic], dated 26 September 2012.
	Environmental assessment titled 'Hunter Valley Operations South Modification 5', Volume 1 and 2 dated February 2017.
	Noise Policy for Industry (NSW EPA, 2017) (Superseding New South Wales Industrial Noise Policy (INP, 2000))
	DRAFT NSW Department of Planning and Infrastructure Guideline – Noise Monitoring Application Note (DP&I, 2013) Australian Standard AS 1055 'Acoustics, Description and Measurement of Environmental Noise'.

REFERENCE	TITLE
	'Noise and Vibration Assessment', Volume Two – Supporting Appendices, Carrington West Wing Environmental Assessment, EMGA Mitchell McLennan – October 2010.
	'Hunter Valley Operations South Coal Project Noise and Vibration Assessment', Volume 2 – Environmental Assessment Report, Environmental Resource Management – January 2008
	'Hunter Valley Operations West Pit and Minor Modifications Noise Assessment', Volume Three – Technical Reports, Environmental Resource Management – October 2003.
HVOOC-1797567310-254	Responding to Environmental alarms procedure
	Concessions and Mitigation Agreement – Coal and Allied and Hunter Valley Gliding Club

13.3 | CHANGE INFORMATION

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

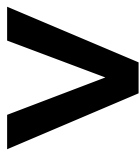
REGULATOR VERSION	HVO SHAREPOINT VERSION	DATE	CHANGE DETAILS	REVIEW TEAM	REGULATOR APPROVAL
1.0	-	28/06/2013	Original	Kelly O'Mullhane – E&C Specialist Gerard Gleeson – E&C Specialist	-
1.1	-	11/02/2014	Revised following DoPI feedback	Kelly Adamthwaite – Approvals Specialist Andrew Speechly – E&C Manager	-



REGULATOR VERSION	HVO SHAREPOINT VERSION	DATE	CHANGE DETAILS	REVIEW TEAM	REGULATOR APPROVAL
1.2	--	30/09/2014	Revised following DP&E feedback	Gerad Gleeson – E&C Specialist Andrew Speechly – E&C Manager	-
1.3	-	29/05/2015	Revised following DP&E feedback	Gerad Gleeson – E&C Specialist Andrew Speechly – E&C Manager	-
1.4	--	24/08/2015	Revised following DP&E feedback	Gerad Gleeson – E&C Specialist Andrew Speechly – E&C Manager	25/08/2015
1.5	-	04/02/2016	Revised Sleep Disturbance compliance assessment	Gerad Gleeson – E&C Specialist Andrew Speechly – E&C Manager	8/03/2016
1.6	-	30/05/2017	Revised following modification to HVO North Consent. Updated Trigger Action Response Plan.	Doug Fenton – E&C Specialist Andrew Speechly – E&C Manager	-
2.0	--	30/11/2017	Revision to align with new ownership management practices.	Dominic Brown – E&C Specialist Andrew Speechly – E&C Manager	-

REGULATOR VERSION	HVO SHAREPOINT VERSION	DATE	CHANGE DETAILS	REVIEW TEAM	REGULATOR APPROVAL
3.0	-	25/05/2018	Review following HVO North Mod. 7.	Dominic Brown – E&C Specialist Andrew Speechly – E&C Manager	-
3.1	-	08/02/2019	Alignment to the Noise Policy for Industry (EPA, 0217)	Dominic Brown – E&C Coordinator Andrew Speechly – E&C Manager	19/02/2019
3.2	-	03/10/2019	Revision following Modification 5 of HVO South Consent and Submission of 2017 Annual Review.	Dominic Brown – E&C Coordinator	-
3.3	-	07/05/2021	Revision following feedback from DPI&E on Version 3.0.	Keith Simkin – E&C Coordinator	-
3.4	-	09/07/2021	Update to reflect HVO plan template, GCAA standards	Keith Simkin – E&C Coordinator	-
3.5	1.0	10/12/2021	Update following DPIE request for information	Keith Simkin – E&C Coordinator	16/12/2021
3.6	1.1	28/03/2022	Update following DPIE request for information	Brenton Hubert – E&C Coordinator Andrew Speechly – E&C Manager	-

REGULATOR VERSION	HVO SHAREPOINT VERSION	DATE	CHANGE DETAILS	REVIEW TEAM	REGULATOR APPROVAL
4.0	2.0	27/02/2025	Update following submission of 2022 IEA, AEMR and PA 06_0261 Mod 8 Approval. Update following Specialist review to: - Resolve inconsistencies between the NMP and related approvals and EPA licence (EPL 640) conditions. - Align compliance monitoring methodology with approval and EPL requirements ensuring locations are suitably representative of nearest, most potentially affected noise-sensitive receptors - Address comments from DPHI 05/04/2024	Brenton Hubert – E&C Superintendent Andrew Speechly – E&C Manager Tony Welbourne – Noise Specialist – EMM Consulting	-



APPENDIX A: CONSULTATION WITH THE EPA



YANCOAL AUSTRALIA LTD
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26 March 2018

Environmental Protection Authority NSW
PO Box 448G
NEWCASTLE NSW 2300

ATTN: Mark Hartwell

Dear Mark

RE: Hunter Valley Operations – EPA Consultation on Noise, Air Quality, Blasting and Water Management Plans

We refer to relevant conditions in contemporary Approvals granted under the *Environmental Planning and Assessment Act 1979* (NSW) (EP&A Act), requiring Hunter Valley Operations to consult with the EPA during development of Environmental Management Plans for Noise, Air Quality and Greenhouse Gas, Blasting, and Water.

We note that the EPA has previously advised (including letter from the EPA to Hunter Valley Operations, reference DOC14/115042, EF13/2793), that "*the...EPA encourages the development of such plans... [the] EPA does not review these documents as our role is...not to be directly involved in the development of strategies to achieve those objectives*".

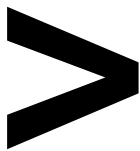
We therefore write seeking confirmation on whether EPA still maintains this position and no longer requires to be consulted on the drafting of such plans for Hunter Valley Operations.

We would be grateful if you could please advise of the EPA's position in this regard by 5 April 2018.

We look forward to hearing from you.

Yours sincerely

Andrew Speechly
Manager Environment & Community
Yancoal – Hunter Valley Operations



DOC18/180487-02, EF16/2461

Hunter Valley Operations
PO Box 267
SINGLETON NSW 2330

18 June 2018

Attention: Dominic Brown

Dear Mr Brown

HUNTER VALLEY (HVO) MANAGEMENT PLAN CONSULTATION

Reference is made to your email dated 26 March 2018 to the Environment Protection Authority ("EPA") in relation to *Hunter Valley Operations Management Plan Consultation*.

The EPA encourages the development of such plans to ensure that proponents have met their statutory obligations and designated environmental objectives. However, the EPA does not review these documents, nor provide input to 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.

The EPA does not require HVO to consult with it regarding the development of plans required under planning consents. The EPA provides its recommended conditions of approval to the Department of Planning and Environment during the development assessment and approvals process.

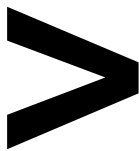
If you wish to discuss the matter further please contact Natasha Ryan on 02 4908 6833.

Yours sincerely



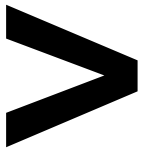
MARK HARTWELL
Head Regional Operations Unit - Hunter
Environment Protection Authority

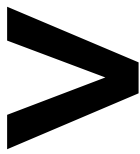
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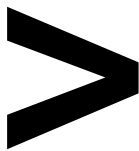
APPENDIX B: DETAILED BASELINE DATA

Hunter Valley Operations 2015 - Attended Noise Monitoring Results							
HVO South Coal Project Approval (PA 02_0261) L _{avg} , 1200h, Impact Assessment Criteria							
Location	Date and Time	Wind Speed	VTG	Criterion (dB)	Criterion Applied?	HVO South L _{max} (dB)	Exceedance
Knoddens Lane	20/05/2015 22:33	2.3	3	37	No	<20	NA
Malton Cleu	20/05/2015 22:37	1.7	3	37	No	29	NA
Shearers Lane	20/05/2015 23:07	1.9	3	41	No	3A	NA
Kilburnie South	21/01/2015 0:36	1.2	3	36	No	33	NA
Jerryn Plains Village	21/01/2015 0:02	1.8	3	35	No	3A	NA
W'worth Village South	21/01/2015 1:38	1.6	3	43	No	33	NA
HVSC	21/01/2015 1:11	1.6	3	55	No	34	NA
Knoddens Lane	11/02/2015 22:02	2.3	3	37	No	3A	NA
Malton Cleu	11/02/2015 22:36	2.1	3	37	No	3A	NA
Shearers Lane	11/02/2015 22:50	1.8	3	41	No	3A	NA
Kilburnie South	11/02/2015 0:23	1.5	3	36	No	35	NA
Jerryn Plains Village	11/02/2015 23:49	1.7	3	35	No	3A	NA
W'worth Village South	12/02/2015 1:25	1.3	3	43	No	3A	NA
HVSC	12/02/2015 0:59	1.5	3	55	No	<20	NA
Knoddens Lane	18/03/2015 22:34	3.5	-1.0	37	N	34	NA
Malton Cleu	18/03/2015 22:41	2.2	0.5	37	N	36	NA
Shearers Lane	18/03/2015 23:07	1	3.0	41	N	36	NA
Kilburnie South	19/03/2015 0:37	1.5	-1.0	36	Y	30	NE
Jerryn Plains Village	19/03/2015 0:07	1.4	0.5	35	Y	3A	NE
W'worth Village South	18/03/2015 23:51	1.2	-1.0	43	Y	25	NE
HVSC	19/03/2015 1:10	0.9	3.0	55	N	32	NA
Knoddens Lane	10/04/2015 0:06	0.7	0.5	37	Yes	<25	NE
Malton Cleu	10/04/2015 0:33	0.8	0.5	37	Yes	27	NE
Shearers Lane	26/04/2015 23:32	2.3	-1	41	Yes	44	3
Kilburnie South	9/04/2015 22:37	0.9	3	36	No	NM	NA
Jerryn Plains Village	9/04/2015 22:10	1.3	0.5	35	Yes	27	NE
W'worth Village South	9/04/2015 23:06	0.8	0.5	43	Yes	3A	NE
HVSC	9/04/2015 23:00	1.5	0.5	55	Yes	3A	NE
Knoddens Lane	24/05/2015 22:00	0.7	0.5	37	Yes	25	NE
Malton Cleu	24/05/2015 22:34	0	0.5	37	Yes	<25	NE
Shearers Lane	24/05/2015 22:52	0	0.5	41	Yes	3A	NE
Kilburnie South	25/05/2015 0:47	0.3	-1.0	36	Yes	32	NE
Jerryn Plains Village	25/05/2015 0:16	0.3	3.0	35	No	32	NA
W'worth Village South	25/05/2015 1:23	1	-1.0	43	Yes	32	NE
HVSC	25/05/2015 1:48	0.1	0.5	55	Yes	<20	NE
Knoddens Lane	11/06/2015 22:31	0	3.0	37	No	<25	NA
Malton Cleu	11/06/2015 22:54	0.8	-1.0	37	Yes	27	NE
Shearers Lane	11/06/2015 23:20	0.7	0.5	41	Yes	38	NE
Shearers Lane	12/06/2015 0:03	0.6	-1.0	41	Yes	31	NE
Shearers Lane	21/06/2015 23:38	0.9	3.0	41	No	31	NA
Kilburnie South	12/06/2015 1:03	0.2	3.0	36	No	<30	NA
Jerryn Plains Village	12/06/2015 1:29	0.1	3.0	35	No	3A	NA
W'worth Village South	12/06/2015 1:58	0.1	0.5	43	Yes	3A	NE
Knoddens Lane	20/07/2015 22:32	0.5	3.0	37	No	3A	NA
Malton Cleu	20/07/2015 22:36	0.3	0.5	37	Yes	3A	NE
Shearers Lane	20/07/2015 23:00	0.5	3.0	41	No	3A	NA
Kilburnie South	21/07/2015 0:29	0.2	3.0	36	No	35	NA
Jerryn Plains Village	20/07/2015 23:54	0.7	0.5	35	Yes	30	NE
W'worth Village South	21/07/2015 1:34	0.7	3.0	43	No	<30	NA
HVSC	21/07/2015 1:06	0	-1.0	55	Yes	42	NE
Knoddens Lane	18/08/2015 0:06	4.1	-1.0	37	No	35	NA
Malton Cleu	18/08/2015 0:28	3.6	-1.0	37	No	37	NA
Shearers Lane	18/08/2015 0:50	3.1	-1.0	41	No	39	NA
Kilburnie South	17/08/2015 22:52	4.1	-1.0	36	No	3A	NA
Jerryn Plains Village	17/08/2015 22:34	3.9	-1.0	35	No	3A	NA
W'worth Village South	17/08/2015 22:00	4	-1.0	43	No	<35	NA
HVSC	17/08/2015 22:23	4.4	-1.0	55	No	48	NA
Knoddens Lane	9/09/2015 22:00	1.20	0.5	37	Yes	3A	NE
Malton Cleu	9/09/2015 22:21	1.10	3.0	37	No	3A	NA
Shearers Lane	9/09/2015 22:43	1.90	0.5	41	Yes	NM	NE
Kilburnie South	10/09/2015 0:01	1.10	0.5	36	Yes	NM	NE
Jerryn Plains Village	9/09/2015 22:53	1.90	0.5	35	Yes	3A	NE
Jerryn Plains Village	9/09/2015 23:12	0.90	0.5	35	Yes	3A	NE
Jerryn Plains East	9/09/2015 22:30	1.10	3	35	No	30	NA
Long Point Road	7/09/2015 22:46	3.80	-1	35	No	28	NA
HVSC	9/09/2015 23:33	0.90	0.5	55	Yes	45	NE
Redmanvale Road	10/09/2015 0:31	1.40	3	35	No	3A	NA
Jerryn Plains West	10/09/2015 0:37	1.40	3	35	No	25	NA
Knoddens Lane	8/10/2015 22:49	2.1	0.5	37	Yes	3A	NE
Malton Cleu	8/10/2015 22:30	2.2	0.5	37	Yes	3A	NE
Shearers Lane	8/10/2015 22:06	2.2	3	41	No	3A	NA
Kilburnie South	8/10/2015 22:30	2.2	0.5	36	Yes	36	NE
Jerryn Plains Village	9/10/2015 0:12	2.3	0.5	35	Yes	29	NE
Jerryn Plains East	9/10/2015 0:09	1.9	0.5	35	Yes	30	NE
Long Point	9/10/2015 0:20	1.9	0.5	35	Yes	30	NE
HVSC	8/10/2015 23:41	1.8	3	55	No	32	NA
Knoddens Lane	8/11/2015 22:51	2.3	0.5	37	Yes	3A	NE
Malton Cleu	8/11/2015 23:16	2.9	-1	37	Yes	3A	NE

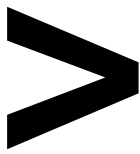




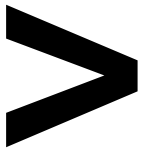
Shearers Lane	8/11/2015 22:26	2.3	0.5	41	YHL	UA	NI
Kilburnie South	9/11/2015 0:13	2.2	0.5	36	YHL	<25	NI
Jerrys Plains Village	9/11/2015 0:43	2	0.5	35	YHL	UA	NI
Jerrys Plains East	9/11/2015 1:07	2	0.5	35	YHL	UA	NI
Long Point Road	8/11/2015 22:46	2.3	0.5	35	YHL	UA	NI
Knobiers Lane	7/12/2015 22:54	4.8	-1	37	No	UA	NA
Malton Drive	7/12/2015 22:34	4.1	-1	37	No	UA	NA
Shearers Lane	7/12/2015 22:56	4.6	-1	41	No	UA	NA
Kilburnie South	8/12/2015 0:08	3.5	-1	36	No	<25	NA
Jerrys Plains Village	7/12/2015 23:12	4.5	-1	35	No	UA	NA
Jerrys Plains East	7/12/2015 22:38	4.1	-1	35	No	30	NA
Long Point Road	11/12/2015 2:01	0.4	3	35	No	NM	NA
HVCG	8/12/2015 0:15	3.0	-1	55	YHL	33	NI

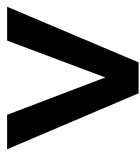


Hunter Valley Operations 2015 - Attended Noise Monitoring Results							
HVO West Pt Development Consent (DA 450-10-2003) L _{max} 124dB _A Impact Assessment Criteria							
Location	Date and Time	Wind Speed	VTG	Criterion (dB)	Criterion Applied?	HVO West L _{max} (dB)	Exceedance
Knodlers Lane	20/01/2015 22:13	2.3	3	25	Yes	1A	NI
Malton Drive	20/01/2015 22:37	1.7	3	25	Yes	1A	NI
Shearers Lane	20/01/2015 23:07	1.9	3	25	Yes	1A	NI
Kilburnie South	21/01/2015 0:34	1.2	3	29	Yes	29	NI
Jermyn Plains Village	21/01/2015 0:02	1.8	3	40	Yes	29	NI
W'worth Village South	21/01/2015 1:38	1.6	3	25	Yes	1A	NI
HVGC	21/01/2015 1:11	1.6	3	NA	Yes	1A	NI
Knodlers Lane	11/02/2015 22:02	2.3	3	25	Yes	1A	NI
Malton Drive	11/02/2015 22:16	2.1	3	25	Yes	1A	NI
Shearers Lane	11/02/2015 22:50	1.8	3	25	Yes	1A	NI
Kilburnie South	12/02/2015 0:23	1.5	3	29	Yes	27	NI
Jermyn Plains Village	11/02/2015 23:49	1.7	3	40	Yes	26	NI
W'worth Village South	12/02/2015 1:25	1.3	3	25	Yes	1A	NI
HVGC	12/02/2015 0:59	1.5	3	NA	No	1A	NA
Knodlers Lane	18/03/2015 22:14	3.5	-1.0	25	N	1A	NA
Malton Drive	18/03/2015 22:41	2.2	0.5	25	Y	1A	NI
Shearers Lane	18/03/2015 23:07	1	3.0	25	Y	1A	NI
Kilburnie South	19/03/2015 0:37	1.5	-1.0	29	Y	1A	NA
Jermyn Plains Village	19/03/2015 0:07	1.4	0.5	40	Y	23	NI
W'worth Village South	18/03/2015 23:51	1.2	-1.0	25	Y	1A	NI
HVGC	19/03/2015 1:10	0.9	3.0	NA	Y	1A	NI
Knodlers Lane	10/04/2015 0:04	0.7	0.5	25	Yes	1A	NI
Malton Drive	10/04/2015 0:33	0.8	0.5	25	Yes	1A	NI
Shearers Lane	26/04/2015 23:32	2.3	-1.0	25	Yes	1A	NI
Kilburnie South	9/04/2015 22:37	0.9	3.0	29	Yes	1A	NI
Jermyn Plains Village	9/04/2015 22:10	1.3	0.5	40	Yes	1A	NI
W'worth Village South	9/04/2015 23:08	0.8	0.5	25	Yes	1A	NI
HVGC	9/04/2015 21:00	1.5	0.5	NA	Yes	1A	NI
Knodlers Lane	24/05/2015 22:00	0.7	0.5	25	Yes	1A	NI
Malton Drive	24/05/2015 22:24	0	0.5	25	Yes	27	NI
Shearers Lane	24/05/2015 22:52	0	0.5	25	Yes	1A	NI
Kilburnie South	25/05/2015 0:47	0.3	-1.0	29	Yes	29	NI
Jermyn Plains Village	25/05/2015 0:16	0.3	3.0	40	Yes	25	NI
W'worth Village South	25/05/2015 1:23	1	-1.0	25	Yes	1A	NI
HVGC	25/05/2015 1:48	0.1	0.5	NA	No	1A	NA
Knodlers Lane	11/06/2015 22:31	0	3.0	25	Yes	1A	NI
Malton Drive	11/06/2015 22:54	0.8	-1.0	25	Yes	1A	NI
Shearers Lane	11/06/2015 23:00	0.7	0.5	25	Yes	1A	NI
Shearers Lane	12/06/2015 0:03	0.4	-1.0	25	Yes	1A	NI
Shearers Lane	21/06/2015 23:38	0.9	3.0	25	Yes	1A	NI
Kilburnie South	12/06/2015 1:03	0.2	3.0	29	Yes	21	NI
Jermyn Plains Village	12/06/2015 1:29	0.1	3.0	26	Yes	23	NI
W'worth Village South	12/06/2015 1:58	0.1	0.5	25	Yes	1A	NI
Knodlers Lane	20/07/2015 22:12	0.5	3.0	25	Yes	1A	NI
Malton Drive	20/07/2015 22:36	0.3	0.5	25	Yes	1A	NI
Shearers Lane	20/07/2015 23:00	0.5	3.0	25	Yes	1A	NI
Kilburnie South	21/07/2015 0:29	0.2	3.0	29	Yes	22	NI
Jermyn Plains Village	20/07/2015 23:54	0.7	0.5	26	Yes	26	NI
W'worth Village South	21/07/2015 1:34	0.7	3.0	25	Yes	1A	NI
HVGC	21/07/2015 1:08	0	-1.0	NA	NA	1A	NA
Knodlers Lane	18/08/2015 0:06	4.1	-1.0	25	No	1A	NA
Malton Drive	18/08/2015 0:28	3.6	-1.0	25	No	1A	NA
Shearers Lane	18/08/2015 0:50	3.1	-1.0	25	No	1A	NA
Kilburnie South	17/08/2015 22:52	4.1	-1.0	29	No	1A	NA
Jermyn Plains Village	17/08/2015 23:14	3.9	-1.0	26	No	1A	NA
W'worth Village South	17/08/2015 23:50	4	-1.0	25	No	1A	NA
HVGC	17/08/2015 22:23	4.4	-1.0	NA	NA	1A	NA
Knodlers Lane	9/09/2015 22:00	1.2	0.5	25	Yes	1A	NI
Malton Drive	9/09/2015 22:21	1.1	3.0	25	Yes	1A	NI
Shearers Lane	9/09/2015 22:43	1.9	0.5	25	Yes	1A	NI
Kilburnie South	10/09/2015 0:01	1.1	0.5	29	Yes	1A	NI
Jermyn Plains Village	9/09/2015 22:53	1.9	0.5	26	Yes	26	NI
Jermyn Plains Village	9/09/2015 23:32	0.9	0.5	26	Yes	24	NI
Jermyn Plains East	9/09/2015 22:20	1.1	3.0	29	Yes	NM	NI
Long Point Road	7/09/2015 22:46	3.8	-1.0	25	No	1A	NA
HVGC	9/09/2015 23:33	0.9	0.5	NA	Yes	1A	NI
Redmansvale Road ¹	10/09/2015 0:31	1.4	3.0	25	Yes	1A	NI
Jermyn Plains West	10/09/2015 0:37	1.4	3.0	25	Yes	1A	NI
Knodlers Lane	8/10/2015 22:49	2.1	0.5	25	Yes	1A	NI
Malton Drive	8/10/2015 22:30	2.2	0.5	25	Yes	1A	NI
Shearers Lane	8/10/2015 23:08	2.2	3	25	Yes	1A	NI
Kilburnie South	8/10/2015 23:30	2.2	0.5	29	Yes	<20	NI
Jermyn Plains Village	9/10/2015 0:32	2.3	0.5	26	Yes	29	NI
Jermyn Plains East	9/10/2015 0:09	1.9	0.5	29	Yes	<25	NI
Long Point	9/10/2015 0:20	1.9	0.5	25	Yes	1A	NI
HVGC	8/10/2015 23:41	1.8	3	NA	Yes	1A	NI



Knockers Lane	8/11/2015 22:51	2.3	0.5	35	Yes	IA	NI
Malton Drive	8/11/2015 23:16	2.9	-1	35	Yes	IA	NI
Shearers Lane	8/11/2015 23:26	2.3	0.5	35	Yes	IA	NI
Kilburnie South	9/11/2015 0:13	2.2	0.5	39	Yes	IA	NI
Jerrys Plains Village	9/11/2015 0:43	2	0.5	36	Yes	IA	NI
Jerrys Plains East	9/11/2015 1:07	2	0.5	39	Yes	IA	NI
Long Point Road	8/11/2015 22:48	2.3	0.5	35	Yes	IA	NI
Knockers Lane	7/12/2015 22:14	4.8	-1	35	No	IA	NA
Malton Drive	7/12/2015 22:34	4.1	-1	35	No	IA	NA
Shearers Lane	7/12/2015 22:56	4.6	-1	35	No	IA	NA
Kilburnie South	8/12/2015 0:08	3.5	-1	39	No	IA	NA
Jerrys Plains Village	7/12/2015 23:12	4.5	-1	36	No	<30	NA
Jerrys Plains East	7/12/2015 23:28	4.1	-1	39	No	30	NA
Long Point Road	11/12/2015 2:01	0.4	3	35	Yes	NM	NI
HVCG	8/12/2015 0:35	3	-1	NA	No	IA	NA





APPENDIX C: APPROVAL OF MANAGEMENT PLAN



Planning,
Industry &
Environment

Andrew Speechly
HV Operations Pty Ltd
1011 Lemington Road
Lemington NSW 2330

16/12/2021

Dear Mr Speechly

**Hunter Valley Operations South (MP06_0261)
Approval of Noise Management Plan**

I refer to the updated Noise Management Plan which was submitted in accordance with condition 10 of Schedule 3 of the development consent for the Hunter Valley Operations South (MP06_0261).

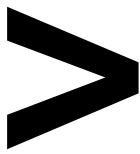
The Department has carefully reviewed the document and is satisfied that it addresses the relevant requirements of MP06_0261, noting that the changes that have been made are largely administrative in nature.

Accordingly, the Secretary has approved the Noise Management Plan (Version 3.5, dated December 2021). Please ensure that the approved plan is placed on the project website at the earliest convenience.

If you wish to discuss the matter further, please contact Joe Fittell on (02) 4908 6896.

Yours sincerely,

Stephen O'Donoghue
Director
Resource Assessments
As nominee of the Secretary



Department of Planning, Housing & Infrastructure



Our ref: MP_0261-PA-89

Brenton Hubert
HV Operations Pty Ltd
1011 Lemington Road
Lemington NSW 2330

17/03/2025

Subject: Hunter Valley Operations - Noise Management Plan

Dear Mr Hubert,

I refer to the document name submitted in accordance with Condition 6, Schedule 3 of the Hunter Valley Operations South Coal Project consent (MP06_0261 as modified) and the Hunter Valley Operations – West Pit Extension consent (DA 450-10-2003 as modified). I also acknowledge your response to the Department's review comments and request for additional information.

The Department has carefully reviewed the Noise Management Plan and is satisfied that it meets the requirements of the relevant conditions in the consents (MP06_0261 and DA 450-10-2003).

Accordingly, as nominee of the Planning Secretary, I approve the Noise Management Plan (Version 4.0 dated 27 February 2025).

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 Katie Weekes on (02) 4927 3223.

Yours sincerely

Stephen O'Donoghue
Director
Resource Assessments

As nominee of the Planning Secretary