

27 February 2025

Ref: 212218/10707

Muswellbrook Coal Company PO Box 123 Muswellbrook NSW 2333

RE: JANUARY 2025 NOISE MONITORING RESULTS – MUSWELLBROOK COAL MINE

This letter report presents the results of noise compliance monitoring, commencing at about 12:20 am on Wednesday 15th of January, 2025, for the Muswellbrook Coal Company (MCC) mine at Muscle Creek Road, Muswellbrook. The monitoring was undertaken as per the requirements of D.A. 205/2002 and detailed in the Noise Management Plan (NMP) for the mine.

Attended Noise Monitoring Program

Noise monitoring was undertaken in accordance with the NMP as summarised below.

All attended monitoring and equipment maintenance and calibration is conducted in accordance with the Noise Policy for Industry (NPfI) and AS1055 – Acoustics, Description and Measurement of Environmental Noise.

Attended noise monitoring is undertaken monthly by an independent noise consultant. Each attended noise survey will be conducted during night periods only. If it is identified during the noise monitoring that the mining noise from the operation is exceeding the criteria, MCC will be notified and the operations will be modified as required. Monitoring at the location(s) where the noise levels are elevated will be undertaken again with a minimum break of 75 minutes between monitoring.

The noise criteria for MCC apply under all meteorological conditions except for the following:

- i. Wind speeds greater than 3m/s at 10m above ground level; or
- ii. Stability category F temperature inversion conditions and wind speeds greater than 2 m/s at 10m above ground level; or
- iii. Stability category G temperature inversion conditions.

To determine compliance with the Leq (15 min) operational noise criteria the modification factors detailed in Section 4 of the NPI must be applied, as appropriate, to the measured noise levels.

Due to the distance of the mine from each residence, the monitoring of LA1 (1minute) at the facade is not considered necessary and will be conducted at/or near the property boundary.

The attended noise monitoring locations are detailed in **Table 1** and shown in **Figure 1**.

Nois	Table 1 e Monitoring Locations
Location	Description
R13	Sandy Creek Road
R15	Queen St
R17	Queen St
R25	Sandy Creek Road
R32	Muscle Creek Road

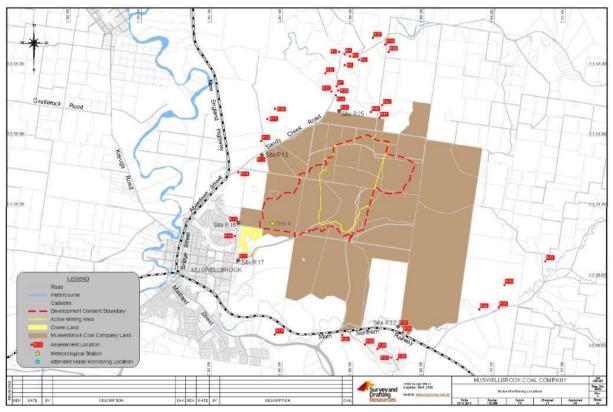


Figure 1 – Noise Monitoring Locations

Noise criteria for all assessment locations shown in Figure 1 are detailed in Appendix I to this report.

Monitoring Equipment

Attended noise monitoring was conducted with a Brüel & Kjær Type 2250 Precision Sound Analyser. This instrument has Type 1 characteristics as defined in AS1259-1990 "Sound Level Meters" and has current NATA calibration. Field calibration is carried out at the start and end of each monitoring period. Calibration certificates are attached as **Appendix II** to this report.

A-weighted noise levels were measured over the 15 minute monitoring period with data acquired of 1 second statistical intervals and the meter set to "fast" response. Each 1 second measurement is accompanied by a third-octave band spectrum from 20 - 20k Hz which is required for analysing NPI 'modifying factors'.





Time based field notes allow for determination of the relative contributions to the overall noise level of all significant noise sources.

Measurement Analysis

The MCC compliance noise criteria are based on a 15 minute Leq noise level. The 15 minute Leq noise level for each monitoring period is shown in the tables below. Where the noise from MCC was audible Bruel & Kjaer "*Evaluator*" analysis software was used to quantify the contribution of the mine and other significant noise sources to the overall level. Mine noise from MCC is shown in the table in bold type.

All noise levels shown are in dB(A) Leq (15 min) unless otherwise detailed.

MCC Operations

Operational details for MCC for the monitoring period on the 15th of January 2025 (that is, after midnight on the 14th of January) are detailed in **Appendix III**. At the time of the noise monitoring MCC had ceased mining operations and work was being undertaken to rehabilitate the site.

Noise Compliance Assessment

The results of the noise measurements are shown in Table 2.

			MCC Oper	ational Nois	Table e Monitori		- 15 th Januar	v 2025	
Location	Time	dB(A), Leq	MCC Contribution dB(A), Leq	Criterion dB(A) Leq	dB(A), L1 (1min) ¹	Criterion dB(A), L1 (1min) ¹	Stability Class/ Wind speed (m/s)/dir ^o	Compliant Met Conditions?	Identified Noise Sources ²
R13 Sandy Creek Rd.	12:43am	48	28	41	32	45	F/1.1/014	Yes	Traffic (48), insects (30), MCC (28)
R15 Queen St.	1:13am	34	n/a	37	n/a	45	E/1.6/213	Yes	Traffic (33), insects (26), MCC inaudible
R17 Queen St.	1:31am	33	n/a	35	n/a	45	F/1.2/187	Yes	Traffic (32), insects (23), frogs (22), MCC inaudible
R25 Sandy Creek Rd.	12:22am	34	26	42	29	45	E/1.9/098	Yes	Train (31), insects (29), MCC (26)
R32 Muscle Creek Rd.	2:01am	36	n/a	35	n/a	45	F/0.6/141	Yes	Traffic (35), frogs (27), insects (26), MCC inaudible

1. L1 (1 min) from MCC mine noise only

2. See text regarding MCC noise sources

The results in Table 2 show that, under the operational and meteorological conditions at the time, mine noise from MCC was audible at monitoring locations R13, and R25. Mine noise from MCC was inaudible at all other monitoring locations throughout the survey.





Table 2 also shows that the noise was consistent enough to be measurable at monitoring locations R13, and R25. At locations R13, and R25, the noise from MCC was from a combination of mine hum with occasional engine revs and dozer tracks.

The data from the mine operated weather station showed that meteorological conditions were compliant with the conditions in the NMP for the noise monitoring surveys conducted at all monitoring locations.

As indicated above, noise from MCC was measurable or quantifiable at locations R13, and R25.

Data from those times where MCC operations were audible during the monitoring survey were analysed using the *"Evaluator"* software. This analysis showed the noise did not contain any tonal or impulsive components as per definitions in the NPI.

The methodology for analysing the low frequency noise modifying factor correction in the NPI is shown in extract below.

Low-frequency noise	Measurement of source contribution C- weighted and A- weighted level and one-third octave measurements in the range 10– 160 Hz	 Measure/assess source contribution C- and A-weighted Leq,T levels over same time period. Correction to be applied where the C minus A level is 15 dB or more and: where any of the one-third octave noise levels in Table C2 are exceeded by up to and including 5 dB and cannot be mitigated, a 2- dB(A) positive adjustment to measured/predicted A- weighted levels applies for the evening/night period where any of the one-third octave noise levels in Table C2 are exceeded by more than 5 dB and cannot be mitigated, a 5- dB(A) positive adjustment to measured/predicted A- weighted levels applies for the evening/night period and a 2- dB(A) positive adjustment applies for the daytime period. 	2 or 5 dB ²	A difference of 15 dB or more between C- and A-weighted measurements identifies the potential for an unbalance spectrum and potential increased annoyance. The values in Table C2 are derived from Moorhouse (2011) for DEFRA fluctuating low- frequency noise criteria with corrections to reflect external assessment locations.
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Hz/dB(Z)	One-th	nird octa	ave dB(2	Z) Leq (15 min)	thresho	ld level						
Frequency (Hz)	10	12.5	16	20	25	31.5	40	50	63	80	100	125	160
dB(Z)	92	89	86	77	69	61	54	50	50	48	48	46	44

The correction applies to the mine noise component only. There are many sources of low frequency noise in the acoustic environment of each receiver area (including noise from road and rail traffic). In many cases the C minus A level is greater than 15 due to these other noise sources. In most instances the screening criteria will be the one third octave analysis. The NPI quantitative assessment of noise



from MCC can only be conducted where the noise was clearly definable, which is at a level typically greater than 30 dB(A) or when there are no other significant sources. Due to this, quantitative assessment of low frequency noise was not possible.

In addition to the operational noise, the noise from MCC must not exceed **45 or 47 dB(A) L1 (1 min)** between the hours of 10 pm and 7 am (see Appendix I for details of noise criteria at various receiver locations). This is to minimise the potential for sleep disturbance as a result of individual loud noises from the mine.

The compliance measurement locations are different for each of the operational and sleep disturbance noise. That is, the sleep disturbance criterion is typically applicable at 1m from the facade of a bedroom window.

To avoid undue disturbance to residents the L1 (1 min) noise level from the operational measurements are used to show general compliance with the sleep disturbance criterion. That is, as the distance between the noise source and the operational noise monitoring location is significantly greater than the distance between the operational noise monitoring location and the sleep disturbance monitoring location (i.e. 1m from the facade of the house) there will be little variation in L1 (1 min) levels between the two monitoring locations.

It must be noted, however, that the sleep disturbance criterion is applicable at the outside of a bedroom window. As the internal layout of each residence is not known, to consider a worst case, the bedroom windows were assumed to be facing towards the mine.

As shown in Table 2, during the night time measurement circuit the L1 (1 min) noise from MCC did not exceed 45 dB(A) at any monitoring location.

We trust this report fulfils your requirements at this time, however, should you require additional information or assistance please contact the undersigned on (02) 4954 2276.

Yours faithfully,

SPECTRUM ACOUSTICS PTY LIMITED

Author:

Neil Pennington Acoustical Consultant

Appendix I

Noise criteria from Development Consent DA205/2002 (Locations as per Figure 1).

Location	Day	Evening	Nig	ht
Location	L _{Aeq(15 minute)}	L _{Aeq(15 minute)}	L _{Aeq(15 minute)}	L _{A1 (1 minute)}
R1, R2, R3, R4, R17, R26, R27, R28, R29, R30, R31, R32, R33, R34, R35, R37, R38, R39	35	35	35	45
R5	36	36	36	45
R7	38	38	38	45
R11	39	39	39	45
R12	39	39	39	45
R13	41	41	41	45
R14	38	38	38	45
R15	37	37	37	45
R16	36	36	36	45
R17	35	35	35	45
R18	45	38	37	47
R20	45	38	37	47
R21	37	37	37	45
R22	39	39	39	45
R23	39	39	39	45
R24	40	40	40	45
R25	42	42	42	45
R36	38	38	38	45
R40	42	42	42	45
R41	42	42	42	45
R42	40	40	40	45

Note: All levels are in dB(A)

Note: Following further consultation with the community it has been identified that R11 is a stable complex, not a residence, so the criteria listed in the table above do not apply.



Appendix II

Calibration Certificates

NVMS	Cartolicate Nor Ca		NATA
Sydney Calibration Laboratory Unit 21, 1 Talavera Road, Macquarie Accredited for compliance with ISO/	e Park NSW 2113, Australia /IEC 17025 - Calibration. Laboratory No. 130	1	WORLD RECOGNISED
CERTIFICATE OF	CALIBRATION	Certificate No: CAU240	1038 Page 1 of 11
ALIBRATION OF:	bisited.	in the other in the	A strategy and a second second second
ound Level Meter:	Brüel & Kjær	2250	No: 3030460
Microphone:	Brüel & Kjær	4189	No: 3318407
Preamplifier:	Brüel & Kjær	ZC-0032	No: 31079
Supplied Calibrator:	Brüel & Kjær	4231	No: 2466354
Software version:	BZ7223 Version 4.7.6	Pattern Approval:	and the state of the second
Instruction manual:	BE1712-22	Identification:	N/A
CUSTOMER:	Destar S		an a
	Spectrum Acoustics Pty Ltd		
	8 Panylan St		
	Cardiff NSW 2285		"energies of the second states of
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Preconditioning: Environment conditions: SPECIFICATIONS: The Sound Level Meter has I Procedures from IEC 61672- are traceable to Australian / PROCEDURE: The measurements have be 3630 with application softw	4 hours at 23 °C see actual values in Environme been calibrated in accordance wi 3:2013 were used to perform the International standards through en performed with the assistance	th the requirements as specifies periodic tests. The measurer accredited calibration of all response of Brüel & Kjær Sound Level	ments included in this document elevant reference equipment. Meter Calibration System B&K
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Appendix III

Operational Details - 14 January 2025 (4:45pm to 2:45am)

Excavator and Truck

EX212 was operating in Zone 8 with 4 x 777 trucks running to the RL175 dump area (Zone 5) •

Dozer Push

- •
- 1 x DZ on Dump Maintenance RL175 7 x DZ's were production dozing in Zone 4 •

Ancillary Equipment

1x Grader being used for haul road maintenance ٠

Crib Breaks (Engine Off) for 14/01/2025 - Night Shift

Cribs breaks vary between 10:30pm – 12:30am.





