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15 February 2021

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Consulting Acoustical & Vibration Engineers

ENVIRONMENTAL NOISE AUDIT
INGHAMS FEEDMILL BERRIMA
FEBRUARY 2021

This report presents the results and findings of an environmental noise audit conducted for Inghams Berrima Feedmill. As a result of previous investigations, it was agreed with Berrima Management that the audit be undertaken to represent the noise exposure at or in proximity of the closest residential dwellings. Two (2) reference residential properties have been identified and adopted for assessing noise and compliance status. We were advised that the *Chelsey Park* property was acquired by Boral and the residential dwelling demolished.

The noise audit was undertaken on Thursday morning 11 February 2021. Weather conditions reported for the Moss Vale (BOM Station 068239) during audit (05.30am – 06.45am) were N-NE breeze (0-3m/sec), clear sky, air temperature 12-16°C and relative humidity 91/2%.

The *EPA Licence Condition (Licence No 11261)* relating to noise for the Berrima Feedmill states the following:

- L6.1 Noise from the premises must not exceed a LAeq(15 minute) noise emission criterion of 40dB(A) at any time.*
- L6.2 Noise from the premises is to be measured at any point on or within the residential boundary or at any point within 30m of the dwelling (rural situations) where the dwelling is more than 30m from the boundary to determine compliance with the LAeq(15 minute) noise limits in condition L6.1. The modification factors presented in Section 4 of the NSW Industrial Noise Policy January 2000 shall also be applied to the measured noise levels where applicable.*
- L6.3 The sound pressure level of noise (L_{Amax}) emitted from the premises must not exceed the background sound pressure level (LA₉₀, 15minutes) by more than 15dB(A) between the hours of 10:00pm and 7:00am.*

L6.4 Noise from the premises is to be measured at any point within one metre of the façade of the most affected residential premises to determine compliance with condition L6.3.

At the time of the audit, we were advised that the plant was operating normally.

Measurements were conducted at the four (4) reference locations shown in *Attachment 1*. NM1 and NM4 are non-residential locations selected for assessing noise trends associated with the Berrima Feedmill. *Table 1* presents a summary of the measurement results and the estimated L_{Aeq} contributions from Inghams Feedmill.

Table 1: Night-time Noise Audit Results

Reference Location	Sound Pressure Levels 20×10^{-6} Pa									
	Measured $L_{Aeq,15min}$	Calculated Contribution $L_{Aeq,15min}$	Octave Band Centre Frequency Hz							
			63	125	250	500	1K	2K	4K	8K
NM1 Chelsey Park*	45.9	<40	57.9	52.2	48.0	44.2	41.0	32.5	23.3	19.2
NM2 Brookdale Road	46.8	<35	55.7	56.5	45.1	42.3	43.0	38.7	26.2	20.3
NM3 Douglas Road	36.5	<35	46.4	38.8	32.4	32.6	26.2	21.4	18.4	13.5
NM4 Berrima Road*	46.7	<35	56.0	55.9	53.8	40.8	38.8	31.3	21.4	18.1

* Non residential locations

The attended audits confirmed that road traffic, a locomotive at Blue Circle and Blue Circle Cement operational noise influenced the ambient noise levels at Chelsey Park (NM1), Brookdale Road (NM2) and Berrima Road (NM4). Insect and bird noise was present at Chelsey Park (NM1), Brookdale Road (NM2) and Douglas Road (NM3). Noise from the Feedmill was audible at Chelsey Park (NM1). Noise from a number of onsite truck movements at the Feedmill was audible at Douglas Road (NM3). During the audit noise from the Feedmill was not tonal or impulsive at the residential measurement locations (NM2 and NM3).

The findings of the audit confirmed that the $L_{Aeq,15min}$ contributions from the Berrima Feedmill at the referenced residential locations (NM2 and NM3) were less than 40dBA and satisfied Condition 6.1 of the *EPA Licence*. With respect to Condition L6.3 the L_{Amax} noise contributions from Inghams did not exceed the background L_{A90} level by more than 15dBA and satisfied the *EPA Licence* condition.

ATKINS ACOUSTICS & ASSOCIATES PTY LTD.

ATTACHMENT 1: NOISE MEASUREMENT LOCATIONS

