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**Attention:** Steve Remero

26 February 2020

**Atkins Acoustics and Associates Pty Ltd.**

Consulting Acoustical & Vibration Engineers

**ENVIRONMENTAL NOISE AUDIT**  
**INGHAMS FEEDMILL BERRIMA**  
**FEBRUARY 2020**

This report presents the results and findings of an environmental noise audit conducted for Inghams Feedmill, Berrima. 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 Tuesday morning 25 February 2020. Weather conditions during audit (02.00am – 03.35am) were NNE breeze (4-5m/sec), 30% cloud cover air temperature 16°C and relative humidity 89%.

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<sub>Amax</sub>) emitted from the premises must not exceed the background sound pressure level (LA<sub>90</sub>, 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 Inghams premises. *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									
	Measured	Calculated Contribution	Octave Band Centre Frequency							
			20x10 <sup>-6</sup> Pa							
$L_{Aeq,15min}$	$L_{Aeq,15min}$	Hz								
			63	125	250	500	1K	2K	4K	8K
NM1 Chelsey Park*	44.2	<40	55.8	50.2	48.3	42.0	37.5	31.8	25.0	26.1
NM2 Brookdale Road	42.3	<35	53.4	46.6	40.5	38.6	34.5	37.6	26.5	24.6
NM3 Douglas Road	34.6	<35	47.7	43.4	36.5	26.5	23.3	22.6	26.6	26.6
NM4 Berrima Road*	44.2	<35	54.0	53.6	50.7	38.1	35.2	31.5	24.1	23.4

\* Non residential locations

The attended audits confirmed that the Blue Circle Cement influenced the ambient noise levels at Chelsey Park (NM1), Brookdale Road (NM2) and Berrima Road (NM4). Insect noise was also present at Brookdale Road (NM2) and Douglas Road (NM3). Noise from Inghams mills and grinders was audible at Chelsey Park (NM1). Engine noise from a number of onsite parked trucks was audible at Douglas Road (NM3). During the audit noise from the feedmill was not tonal or impulsive at the residential measurement locations.

The findings of the audit confirmed that the  $L_{Aeq,15min}$  contributions from the Inghams premises for the referenced residential measurement 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

