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TN303-08F01 61 Milperra Rd, Revesby - S4.55(1A) - Acoustic compliance statement (r4)

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61 Milperra Road, Revesby - S4.55(1A) Modification - Acoustic Compliance Statement

1 Introduction

Renzo Tonin & Associates (RTA) were engaged by Buildcorp to prepare an Acoustic Compliance Statement for the Section 4.55(1A) Modification for 61 Milperra Road, Revesby (the Project). The proposed amendments to the development are limited to the following:

- Changes to the building envelope including an extension of the Warehouse 1C and Warehouse 2A footprints at ground floor.
- Deletion of the 2B, 2C, 2D, 1A & 1B mezzanines on ground floor and rationalisation/reduction of the 2A & 1C mezzanines on the ground floor.
- The Level 1 mezzanine extents will remain but with a reduction in the amenities at ground floor.
- Reduction in on-site car parking by 48 spaces, with a total of 174 spaces provided.
- Small reduction in the roof level of the northern portion of the development (to RL43.45) to provide a 2m clearance to the OLS in this area of the site.

The approved SSD-63664708 site plan is shown in Figure 1-1 below. The proposed modification is provided in Figure 1-2 highlighting modified areas of the approved design.



Department of Planning,
Housing and Infrastructure

DEVELOPMENT ANALYSIS

WAREHOUSE 1A	2,250 m ²
WAREHOUSE 1B	2,250 m ²
WAREHOUSE 1C	2,250 m ²
WAREHOUSE 1D	2,250 m ²
WAREHOUSE 1E	2,250 m ²
WAREHOUSE 1F	2,250 m ²
WAREHOUSE 1G	2,250 m ²
WAREHOUSE 1H	2,250 m ²
WAREHOUSE 1I	2,250 m ²
WAREHOUSE 1J	2,250 m ²
WAREHOUSE 1K	2,250 m ²
WAREHOUSE 1L	2,250 m ²
WAREHOUSE 1M	2,250 m ²
WAREHOUSE 1N	2,250 m ²
WAREHOUSE 1O	2,250 m ²
WAREHOUSE 1P	2,250 m ²
WAREHOUSE 1Q	2,250 m ²
WAREHOUSE 1R	2,250 m ²
WAREHOUSE 1S	2,250 m ²
WAREHOUSE 1T	2,250 m ²
WAREHOUSE 1U	2,250 m ²
WAREHOUSE 1V	2,250 m ²
WAREHOUSE 1W	2,250 m ²
WAREHOUSE 1X	2,250 m ²
WAREHOUSE 1Y	2,250 m ²
WAREHOUSE 1Z	2,250 m ²
WAREHOUSE 2A	2,250 m ²
WAREHOUSE 2B	2,250 m ²
WAREHOUSE 2C	2,250 m ²
WAREHOUSE 2D	2,250 m ²
WAREHOUSE 2E	2,250 m ²
WAREHOUSE 2F	2,250 m ²
WAREHOUSE 2G	2,250 m ²
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WAREHOUSE 2U	2,250 m ²
WAREHOUSE 2V	2,250 m ²
WAREHOUSE 2W	2,250 m ²
WAREHOUSE 2X	2,250 m ²
WAREHOUSE 2Y	2,250 m ²
WAREHOUSE 2Z	2,250 m ²
WAREHOUSE 3A	2,250 m ²
WAREHOUSE 3B	2,250 m ²
WAREHOUSE 3C	2,250 m ²
WAREHOUSE 3D	2,250 m ²
WAREHOUSE 3E	2,250 m ²
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WAREHOUSE 3P	2,250 m ²
WAREHOUSE 3Q	2,250 m ²
WAREHOUSE 3R	2,250 m ²
WAREHOUSE 3S	2,250 m ²
WAREHOUSE 3T	2,250 m ²
WAREHOUSE 3U	2,250 m ²
WAREHOUSE 3V	2,250 m ²
WAREHOUSE 3W	2,250 m ²
WAREHOUSE 3X	2,250 m ²
WAREHOUSE 3Y	2,250 m ²
WAREHOUSE 3Z	2,250 m ²
WAREHOUSE 4A	2,250 m ²
WAREHOUSE 4B	2,250 m ²
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WAREHOUSE 4X	2,250 m ²
WAREHOUSE 4Y	2,250 m ²
WAREHOUSE 4Z	2,250 m ²
WAREHOUSE 5A	2,250 m ²
WAREHOUSE 5B	2,250 m ²
WAREHOUSE 5C	2,250 m ²
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WAREHOUSE 5P	2,250 m ²
WAREHOUSE 5Q	2,250 m ²
WAREHOUSE 5R	2,250 m ²
WAREHOUSE 5S	2,250 m ²
WAREHOUSE 5T	2,250 m ²

[illegible]

The following table also provides a comparison of the key components relevant to the modified development.

Table 1-1: Modification comparison to approved SSDA design

Component	Approved Development	Modified Proposal
Total Gross Floor Area (GFA)	44,168sqm	43,088sqm (1,080sqm reduction)
Maximum Building Height	22.93m	21.40m (1.53m reduction)
Car Parking	DCP Required: 179 spaces Proposed: 222 spaces Surplus: 43 spaces	DCP Required: 164 spaces Proposed: 174 spaces Surplus: 11 spaces
Estimated Operational Jobs	724	440

2 Modification acoustic review

The EIS Noise and Vibration Impact Assessment (NVIA) was prepared by RTA for the SSD submission [ref: TN303-01F04 Milperra Road, Revesby NVIA (r7), dated 10.07.2024]. The predicted operational noise levels for the reasonable worst case 15 minute assessment are presented in Section 6.4.1, Table 6-14 of the NVIA.

Based on the proposed amendments detailed in Section 1 above, the proposed modifications to the building footprint would not have any significant impact on the outcomes of the NVIA. The reduction in car parking would overall have a minor benefit, however noise emissions from site car parks was determined not to be a significant source of noise emissions from the Project.

The only proposed modification with the potential to cause a change in noise emissions is the reduction in the roof level at the north-west corner of the development to RL43.45, caused by a lowering of rooftop sources and potential reduction in the effectiveness of rooftop screens for mechanical plant. This acoustic assessment investigates the potential impacts of this modification.

In addition, we have been advised by Stantec that the traffic volumes for heavy vehicles accessing and departing the site would not increase as a result of the modification works to the volumes presented in the SSD Traffic Impact Assessment (TIA) that were used as the basis of the SSD NVIA.

3 Modification noise modelling

The noise model prepared for the NVIA has been updated to reflect the proposed modification design. Noise emissions have been predicted and reviewed to determine if the lowering in RL of the roof results in any variations to the predicted noise levels detailed in Table 6-14 of the NVIA.

All modelling and assessment methodologies and assumptions are as per the SSD NVIA, except where described above.

The results and comparison to the EIS NVIA are presented in Table 3-1 below.

Table 3-1: Predicted operational noise levels – L_{Aeq,15minute}

Receiver				CoA B16 noise limit	Predicted noise level, L _{Aeq 15min} , dB(A)								Increase, dB(A)			
ID	Address	Receiver type	NCA		EIS NVIA (Table 6-14)				Modification							
				Day/evening/night/ mourning shoulder	Daytime	Evening 6pm to 10pm	Night 10pm to 5am	Morning shoulder 5am to 7am	Daytime 7am to 6pm	Evening 6pm to 10pm	Night 10pm to 5am	Morning shoulder 5am to 7am	Daytime 7am to 6pm	Evening 6pm to 10pm	Night 10pm to 5am	Morning shoulder 5am to 7am
R1	41c Mons Street, Condell	Residential	NCA1	-	48	47	43	45	48	47	43	45	0	0	0	0
R2	41b Mons Street, Condell	Residential	NCA1	49/48/43/45	49	48	43	45	49	48	43	45	0	0	0	0
R3	41a Mons Street, Condell	Residential	NCA1	-	49	47	43	44	49	47	43	44	0	0	0	0
R4	41 Mons Street, Condell	Residential	NCA1	-	49	47	42	44	49	47	42	44	0	0	0	0
R5	39a Mons Street, Condell	Residential	NCA1	-	44	43	43	43	44	44	43	43	0	1	0	0
R6	39 Mons Street, Condell	Residential	NCA1	45/44/43/43	45	44	43	43	45	44	43	43	0	0	0	0
R7	37 Mons Street, Condell	Residential	NCA1	-	41	41	41	41	41	41	41	41	0	0	0	0
R8	33 Mons Street, Condell	Residential	NCA1	-	43	43	42	42	43	43	42	42	0	0	0	0
R9	38 Mons Street, Condell	Residential	NCA1	-	46	45	37	37	47	45	37	37	1	0	0	0
R10	36 Mons Street, Condell	Residential	NCA1	-	45	44	41	41	45	44	41	42	0	0	0	1
R11	26 Milperra Road, Revesby	Residential	NCA2	-	48	46	46	48	48	46	46	48	0	0	0	0
R12	36a Milperra Road, Revesby	Residential	NCA2	49/47/46/49	49	47	46	49	49	47	46	49	0	0	0	0
R13	40 Milperra Road, Revesby	Residential	NCA2	-	49	47	46	49	49	47	46	49	0	0	0	0
R14	42 Milperra Road, Revesby	Residential	NCA2	50/48/48/50	50	48	48	50	50	48	48	50	0	0	0	0
R15	52 Milperra Road, Revesby	Residential	NCA2	45/44/43/45	45	44	43	45	45	44	43	45	0	0	0	0
R16	56 Milperra Road, Revesby	Residential	NCA2	-	44	43	43	44	44	43	43	44	0	0	0	0
R17	60-62 Milperra Road,	Residential	NCA2	-	43	43	42	43	43	43	42	43	0	-1	0	0
R18	2a Albert Street, Revesby	Residential	NCA3	-	46	44	43	45	46	44	43	45	0	0	0	0
R19	1a Sherwood Street,	Residential	NCA3	-	45	43	42	45	45	43	42	45	0	0	0	0
R20	2a Sherwood Street,	Residential	NCA3	-	44	42	41	44	44	42	41	44	0	-1	0	0
R21	1 Ely Street, Revesby	Residential	NCA3	-	43	42	41	42	43	42	41	42	-1	-1	0	0
R22	2b Ely Street, Revesby	Residential	NCA3	-	43	42	42	43	43	42	42	43	0	0	0	0
R23	19 Willfox Street, Condell	Industrial	-	-	66	66	66	66	66	66	66	66	0	0	0	0
R24	51 Milperra Road, Revesby	Industrial	-	-	61	59	58	61	61	59	58	61	0	0	0	0
R25	10 Milperra Road, Revesby	Commercial	-	-	42	41	41	42	42	41	41	43	0	0	0	1
R26	14 The River Road , Revesby	Place of worship	-	-	38	37	37	38	39	38	37	38	1	1	0	0
R27	71 Milperra Road, Revesby	Industrial	-	-	48	48	48	48	48	48	48	48	0	0	0	0
R28	71a Milperra Road, Revesby	Industrial	-	-	52	52	52	52	52	52	52	52	0	0	0	0
R29	111 Gallipoli Street, Condell	Childcare	-	-	32	31	31	31	32	32	31	31	0	1	0	0
R30	68-70 Eldridge Road,	Hospital	-	-	38	38	37	37	39	38	37	37	1	0	0	0

4 Outcomes of assessment

Based upon the results presented in Table 3-1, the design modification when compared to the results presented in the NVIA are generally consistent. In general, there are no changes to the predicted noise levels. Noise levels are however modelled to increase by up to 1dB(A) at seven receivers. However, noise levels are also modelled to decrease by up to 1dB(A) at three receivers. These results are mostly attributable to rounding, therefore the modelled rounded increase or decrease by +/-1dB(A) is greater than the actual modelled differences.

For receivers where increases of up to 1dB(A) are modelled, there are no impacts on the outcomes of the NVIA, as the modelled noise levels are not above the PNTL's presented in the NVIA. In addition, these receivers are not identified in the SSD-63664708 Conditions of Consent B16, nor do they exceed their consent noise limits for their relevant identified nearby receivers defined in CoA B16.

In summary, based upon the design modifications for 61 Milperra Road, Revesby (SSD-63664708) detailed in Section 1, the revised acoustic assessment detailed in Section 3 demonstrates that operational noise levels from the proposal are modelled to be generally consistent with the NVIA. There are no modelled exceedances of the Conditions of Consent B16 noise limits.

Document control

Date	Revision history	Non-issued revision	Issued revision	Prepared	Instructed	Reviewed / Authorised
25.03.2026	Initial issue	0	1	R. Phillips	-	P. Karantonis
27.03.2026	Updated for comments		2	R. Phillips	-	-
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APPENDIX A Glossary of terminology

The following is a brief description of the technical terms used to describe noise to assist in understanding the technical issues presented.

Adverse weather	Weather effects that enhance noise (that is, wind and temperature inversions) that occur at a site for a significant period of time (that is, wind occurring more than 30% of the time in any assessment period in any season and/or temperature inversions occurring more than 30% of the nights in winter).
Ambient noise	The all-encompassing noise associated within a given environment at a given time, usually composed of sound from all sources near and far.
Assessment period	The period in a day over which assessments are made.
Assessment point	A point at which noise measurements are taken or estimated. A point at which noise measurements are taken or estimated.
Background noise	Background noise is the term used to describe the underlying level of noise present in the ambient noise, measured in the absence of the noise under investigation, when extraneous noise is removed. It is described as the average of the minimum noise levels measured on a sound level meter and is measured statistically as the A-weighted noise level exceeded for ninety percent of a sample period. This is represented as the L90 noise level (see below).
Decibel [dB]	The units that sound is measured in. The following are examples of the decibel readings of every day sounds: 0dB The faintest sound we can hear 30dB A quiet library or in a quiet location in the country 45dB Typical office space. Ambience in the city at night 60dB CBD mall at lunch time 70dB The sound of a car passing on the street 80dB Loud music played at home 90dB The sound of a truck passing on the street 100dB The sound of a rock band 120dB Deafening
dB(A)	A-weighted decibels. The A- weighting noise filter simulates the response of the human ear at relatively low levels, where the ear is not as effective in hearing low frequency sounds as it is in hearing high frequency sounds. That is, low frequency sounds of the same dB level are not heard as loud as high frequency sounds. The sound level meter replicates the human response of the ear by using an electronic filter which is called the "A" filter. A sound level measured with this filter switched on is denoted as dB(A). Practically all noise is measured using the A filter.
dB(C)	C-weighted decibels. The C-weighting noise filter simulates the response of the human ear at relatively high levels, where the human ear is nearly equally effective at hearing from mid-low frequency (63Hz) to mid-high frequency (4kHz), but is less effective outside these frequencies.
Frequency	Frequency is synonymous to pitch. Sounds have a pitch which is peculiar to the nature of the sound generator. For example, the sound of a tiny bell has a high pitch and the sound of a bass drum has a low pitch. Frequency or pitch can be measured on a scale in units of Hertz or Hz.
Impulsive noise	Having a high peak of short duration or a sequence of such peaks. A sequence of impulses in rapid succession is termed repetitive impulsive noise.
Intermittent noise	The level suddenly drops to that of the background noise several times during the period of observation. The time during which the noise remains at levels different from that of the ambient is one second or more.
L _{Max}	The maximum sound pressure level measured over a given period.
L _{Min}	The minimum sound pressure level measured over a given period.

L ₁	The sound pressure level that is exceeded for 1% of the time for which the given sound is measured.
L ₁₀	The sound pressure level that is exceeded for 10% of the time for which the given sound is measured.
L ₉₀	The level of noise exceeded for 90% of the time. The bottom 10% of the sample is the L90 noise level expressed in units of dB(A).
L _{eq}	The "equivalent noise level" is the summation of noise events and integrated over a selected period of time.
Reflection	Sound wave changed in direction of propagation due to a solid object obscuring its path.
SEL	Sound Exposure Level (SEL) is the constant sound level which, if maintained for a period of 1 second would have the same acoustic energy as the measured noise event. SEL noise measurements are useful as they can be converted to obtain L _{eq} sound levels over any period of time and can be used for predicting noise at various locations.
Sound	A fluctuation of air pressure which is propagated as a wave through air.
Sound absorption	The ability of a material to absorb sound energy through its conversion into thermal energy.
Sound level meter	An instrument consisting of a microphone, amplifier and indicating device, having a declared performance and designed to measure sound pressure levels.
Sound pressure level	The level of noise, usually expressed in decibels, as measured by a standard sound level meter with a microphone.
Sound power level	Ten times the logarithm to the base 10 of the ratio of the sound power of the source to the reference sound power.
Tonal noise	Containing a prominent frequency and characterised by a definite pitch.