

2 May 2025

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Attention: [REDACTED]

RANGITOOPUNI DEVELOPMENT WAITEMATĀ GUN CLUB NOISE REVERSE SENSITIVITY

Dear [REDACTED]

We have reviewed the Rangitooopuni Development masterplan prepared by Boffa Miskell, dated 28 March 2025, and considered the noise reverse sensitivity implications on the Waitematā Gun Club (WGC) at 465 Old North Road, Kumeū.

Waitematā Gun Club Background

The memo prepared by Campbell Brown Planning Limited, dated 1 May 2025, discusses the history of WGC in detail. In summary, the WGC was originally granted a consent in June 1966 with no conditions, however at the time it was stated that shooting would take place one day per month between 11am and 5pm. Campbell Brown Planning have established this to be the legal basis of the “environment” on which our assessment must be based.

Although WGC has operated more frequently than this in recent times (understood to be every Saturday, Wednesday afternoon, and every 2nd and 4th Sunday), the WGC does not have a resource consent or Certificate of Compliance for this change in intensity and scale of activity. We note that there is a history of WGC noise complaints, as documented in [this 2016 Stuff article](#).

We are not aware of any noise-related reverse sensitivity controls for WGC or overlays that prohibit residential development.

Estimated Gunshot Noise Levels and Corresponding Noise Effects

We have calculated approximate gunshot noise levels received at the proposed residential development based on our noise measurements of other clay target shooting facilities¹. We have split receiving residential sites into five categories described in Table 1 and shown in Figure 1 on the following pages.

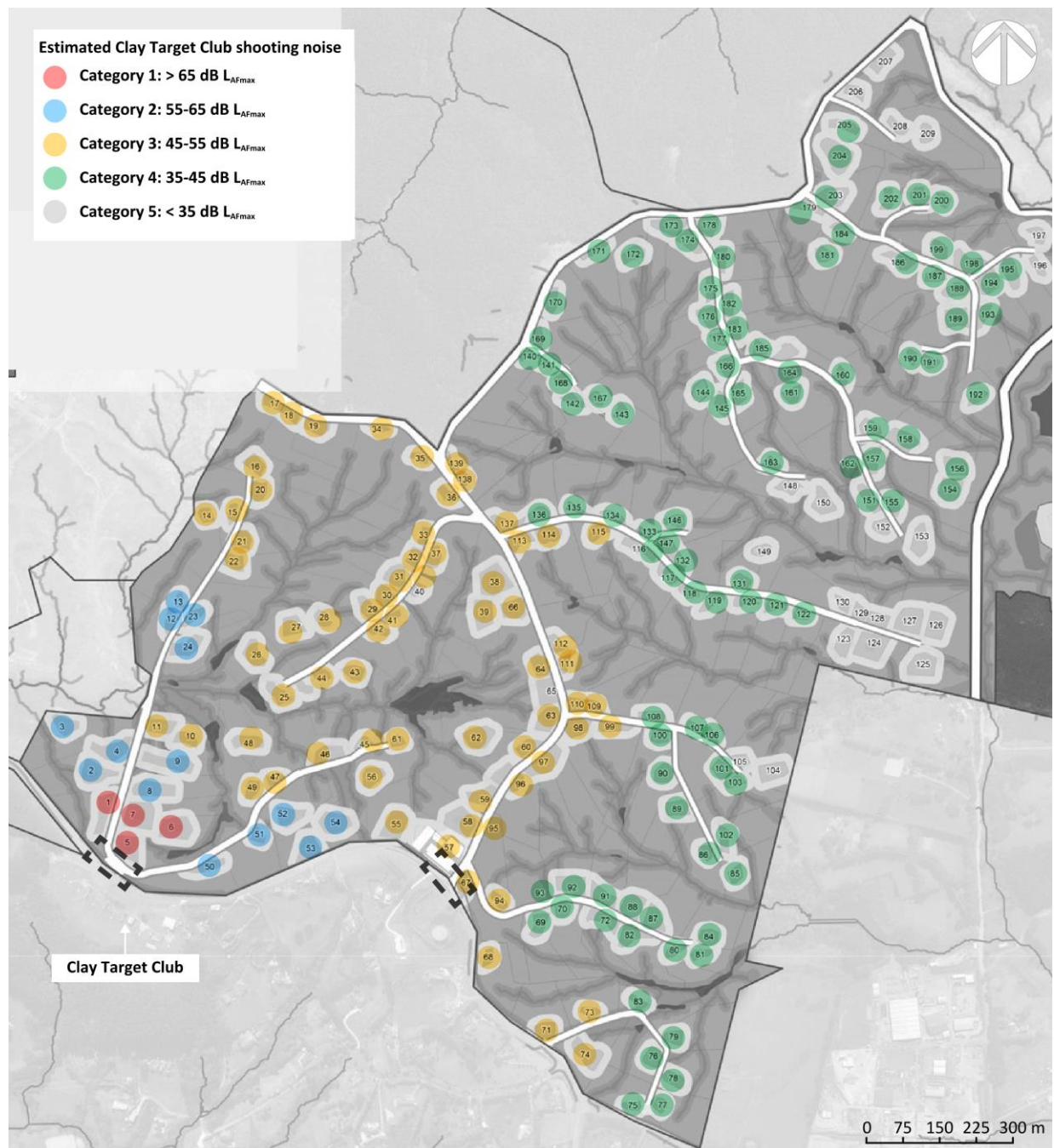
It is important to note that the preliminary noise effects descriptions provided in Table 1 are based on the lawful activity, i.e. **one day of shooting per month between 11am and 5pm**, as directed. The noise effects descriptions also take into consideration the relatively quiet Riverhead Forest environment.

¹ Based on measurements 120-400 metres away at gun orientations ranging between 90-180 degrees off-axis.

Table 1: WGC gunshot noise summary

Category	Estimated gunshot noise level, dB L_{AFmax}	Noise description	Noise effects
1 (red)	> 65	Dominant and likely to cause serious annoyance	Reasonable provided residents are notified of shooting day in advance and the property titles include an appropriate covenant
2 (blue)	55 – 65	Clearly audible and annoying to most people	
3 (yellow)	45 – 55	Audible and annoying to some people	Reasonable provided the property titles include an appropriate covenant
4 (green)	35 – 45	Audible at times but generally not annoying	Reasonable. No mitigation necessary
5 (grey)	< 35	Generally inaudible	

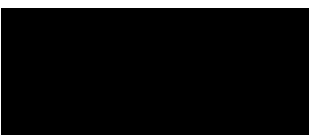
Figure 1: Waitematā Gun Club gunshot noise categories



We trust this information is sufficient. If you have any further questions, please do not hesitate to contact us.

Yours faithfully

MARSHALL DAY ACOUSTICS LIMITED



Senior Acoustic Engineer