

MEMO

<b>Project:</b>	SH1 Papakura to Bombay	<b>Document No.:</b>	Mm 002
<b>To:</b>	Aurecon	<b>Date:</b>	30 September 2021
<b>Attention:</b>	Helen McLean	<b>Cross Reference:</b>	
<b>Delivery:</b>	email	<b>Project No.:</b>	20190430
<b>From:</b>	Siiri Wilkening	<b>No. Pages:</b>	2
		<b>Attachments:</b>	No
<b>Subject:</b>	Stage 1B1 – Response to acoustic comments by Hugh Green Ltd		

Helen,

We have received the comments made by invited parties on the Covid-19 Recovery (Fast-track Consenting) Papakura to Drury South SH1 Improvements project, Stage 1B1 (**Project**). We have undertaken the noise and vibration assessment for the Project and produced the Noise and Vibration Assessment report (**Report**).

Hugh Green Limited made comments in relation to acoustics. We respond to their issues below.

Hugh Green Ltd owns and intends to develop the sites at 144 and 152 Park Estate Road. 144 Park Estate Road abuts the Project. Hugh Green Ltd is concerned about a failure of the Project to assess noise effects on the site and to not provide mitigation.

We note that the road alignment will not be outside the existing designation at any point along the Hugh Green Ltd site. The only new facility outside the existing designation is the shared use path, which would not generate noise levels that would be audible above the traffic noise on SH1.

The Project will be surfaced with Open Graded Porous Asphalt (**OGPA**), which is a low noise road surface which will benefit existing and future dwellings alike.

The site is not currently developed, i.e. there are no existing buildings or current building consents (at the time of assessment). Therefore, an assessment in accordance with NZS6806:2010 *Acoustics - Road-traffic noise – New and altered road* (the New Zealand road noise standard) would not take account of the site specifically as NZS6806 only addresses existing or consented protected premises and facilities (**PPFs**).

In any event, the change in noise level due to the implementation of the Project is negligible (less than 1 dB) which means that:

- NZS6806 thresholds of effects are not triggered (refer Report Appendix B, Section 1.1), and
- The Project has no noticeable effect on the site (refer Report Appendix B, Section 1.2). To demonstrate that the Project has no noticeable noise effect, we have provided noise level contour maps for the situation with and without project, and also a comparison noise map showing the difference in noise level.

As noted in the Hugh Green Ltd comment, there are no restrictions on establishing residential developments adjacent to SH1 (though we would strongly recommend that any development take account of the high existing noise levels and mitigate these to enable an appropriate residential noise environment). Since there is no change in noise level due to the Project, there is no change in the acoustic environment under which Hugh Green Ltd would have developed the site without the Project.

Hugh Green Site – Noise levels and noise level changes

