

Annexure 5: Noise experts' best assessments of the durations and levels of night-time noise

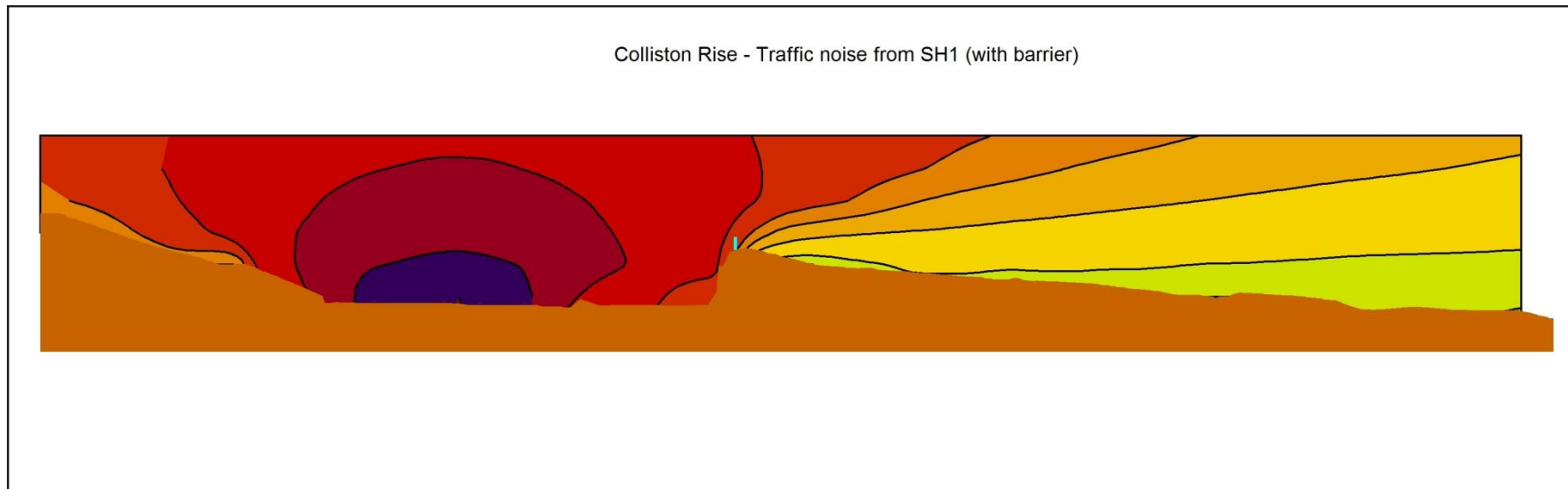
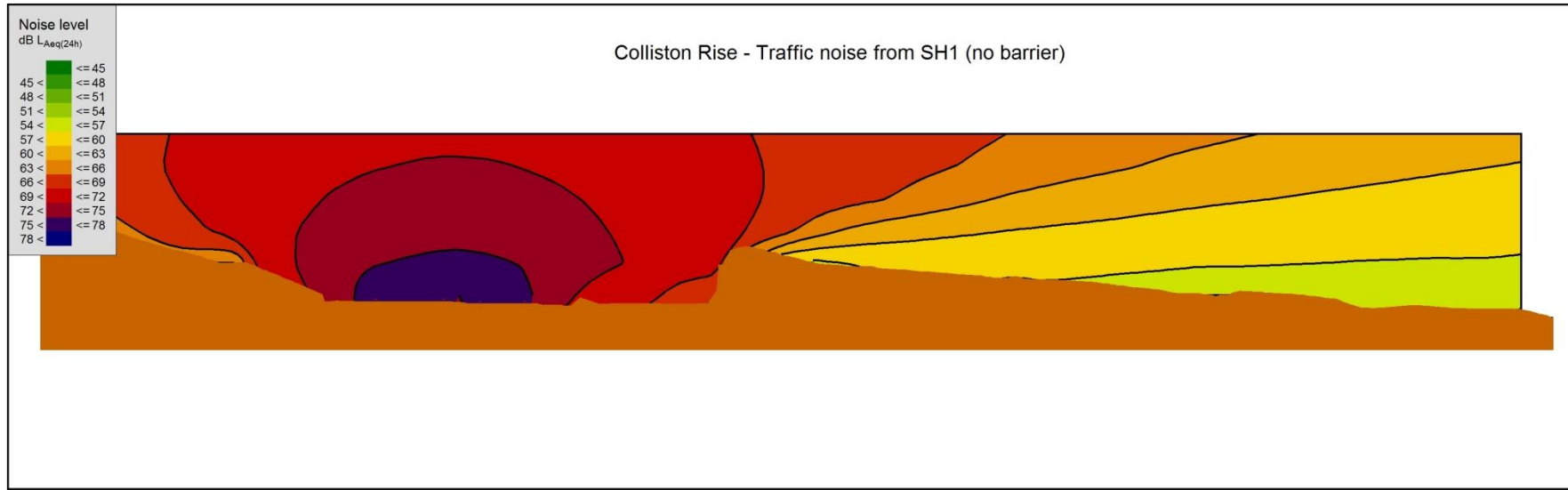
Bridge	Indicative timeframe – Daytime (months)	Night time works	Potential sensitive receivers where night time noise may exceed limits	Estimated night-time noise levels (dB)
Proposed Albany Busway Bridge	12 to 18	As described in paragraph 9 (k) and (l) above	Residential development to the east (Masons Road)	Less than 45 dB at all residential sites
Existing McClymonts Road Bridge	3 to 6	Demolition of the existing bridge	Apartments at Block E, 1/60 Masons Road, 66 and 71 Spencer Road and at McClymonts Road south of the bridge	All units in the apartment blocks affected with levels above 45 dB, the five most affected units in 60 Mason Road 60 to 64 dB
Proposed McClymonts Road Bridge	12 to 18	As described in paragraph 9 (k) and (l) above	As for existing bridge	Up to 60 dB at 20 apartments at Block E, 1/ 60 Masons Road
Proposed Spencer Road Footbridge		Subject to separate consenting	N/A	N/A
Existing Greville Road Bridge	6 to 12 for each widening (n/b and s/b)	As described in paragraph 9 (k) and (l), above	None at present. If dwellings at Colliston Rise are inhabited prior to construction, some exceedance may occur	Less than 45 dB at the Colliston Rise subdivision boundary

Bridge	Indicative timeframe – Daytime (months)	Night time works	Potential sensitive receivers where night time noise may exceed limits	Estimated night-time noise levels (dB)
Proposed Greville Road Busway Bridge	12 to 18	As described in paragraph 9 (k) and (l) above	None at present. If dwellings at Colliston Rise are inhabited prior to construction, some exceedance may occur	Up to 53dB at the boundary at the subdivision site boundary
Proposed Waste Management Bridge option, as described in Mr Moore's rebuttal evidence	6 to 12	Unlikely to involve night time construction	N/A	N/A
Existing Rosedale Road Bridge	6 to 12 for each widening (lowering of Rosedale Road will be completed prior to this work being undertaken, which will take 2 to 3 months)	If work is done over a long weekend, there would be night time works (excavation of existing road pavement, and construction of a new road pavement)	There are five residential receivers (live-work units) in the locality, which could be affected if they are occupied.	Excavation of road pavement 50 to 53 dB at the six work/live units (note that night time noise limits in this General Business zone are 60 dB L _{Aeq})
Proposed Rosedale Road Busway Bridge	6 to 12	Unlikely to involve night time construction, however if there is, it would be limited to lifting of bridge beams	There are five residential receivers (live-work units) in the locality, which could be affected if they are occupied.	No residences over 45dB, or businesses over 75dB

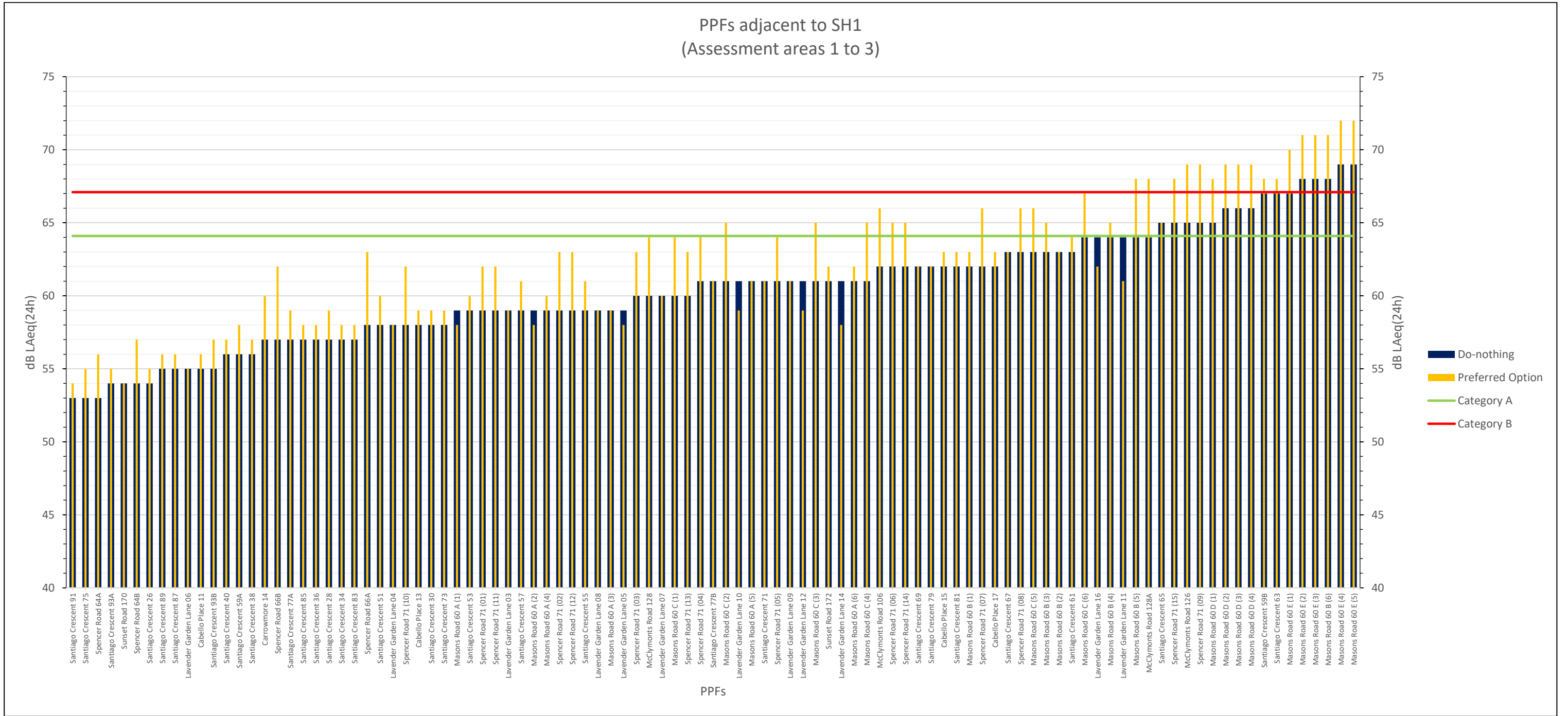
Bridge	Indicative timeframe – Daytime (months)	Night time works	Potential sensitive receivers where night time noise may exceed limits	Estimated night-time noise levels (dB)
Proposed SH1 to SH18 Ramp Connection Bridge	24 to 30	As described in paragraph 9 (k) and (l) above	<p>The Kiwi Self Storage manager's residence is located on the eastern side of the southern unit, and is therefore is shielded from motorway and construction noise</p> <p>There are sensitive receivers more than 200m away</p>	3 houses From 45 to 48dB in Cabello Place, up to 56dB at the manager residence at Kiwi Self Storage (note that night time noise limits in this General Business zone are 60 dB LAeq)
Existing Constellation Drive Bridge	6 to 12 for each widening (n/b and s/b)	As described in paragraph 9 (k) and (l) above	There are sensitive receivers within 100m	15 houses exposed to greater than 45dB, with up to 60dB at the closest residence at Cabello Pl.
Proposed Constellation Drive Busway Bridge	6 to 12	As described in paragraph 9 (k) and (l) above	There are sensitive receivers 150-200m away but they are well shielded by the existing motorway embankment, and the noise source is lower at ground level at Constellation Drive	15 houses exposed to levels up to of 47dB

Bridge	Indicative timeframe – Daytime (months)	Night time works	Potential sensitive receivers where night time noise may exceed limits	Estimated night-time noise levels (dB)
Constellation Busway Station (northbound platform and pedestrian footbridge to connect platforms)	6 to 12	Craning of pre-cast concrete panels and concrete pouring	Approximately 30-40 properties on Santiago Crescent	No residences over 45dB
Proposed Caribbean Drive Bridges	12 to 18	Unlikely to involve night time construction	N/A	N/A
Proposed Paul Matthews Road Bridge	24 to 30	As described in paragraph 9 (k) and (l) above	Sensitive receivers at Barbados Drive within 50m in places	Up to 80 houses exceeding 45dB, and 71dB at the worst affected.

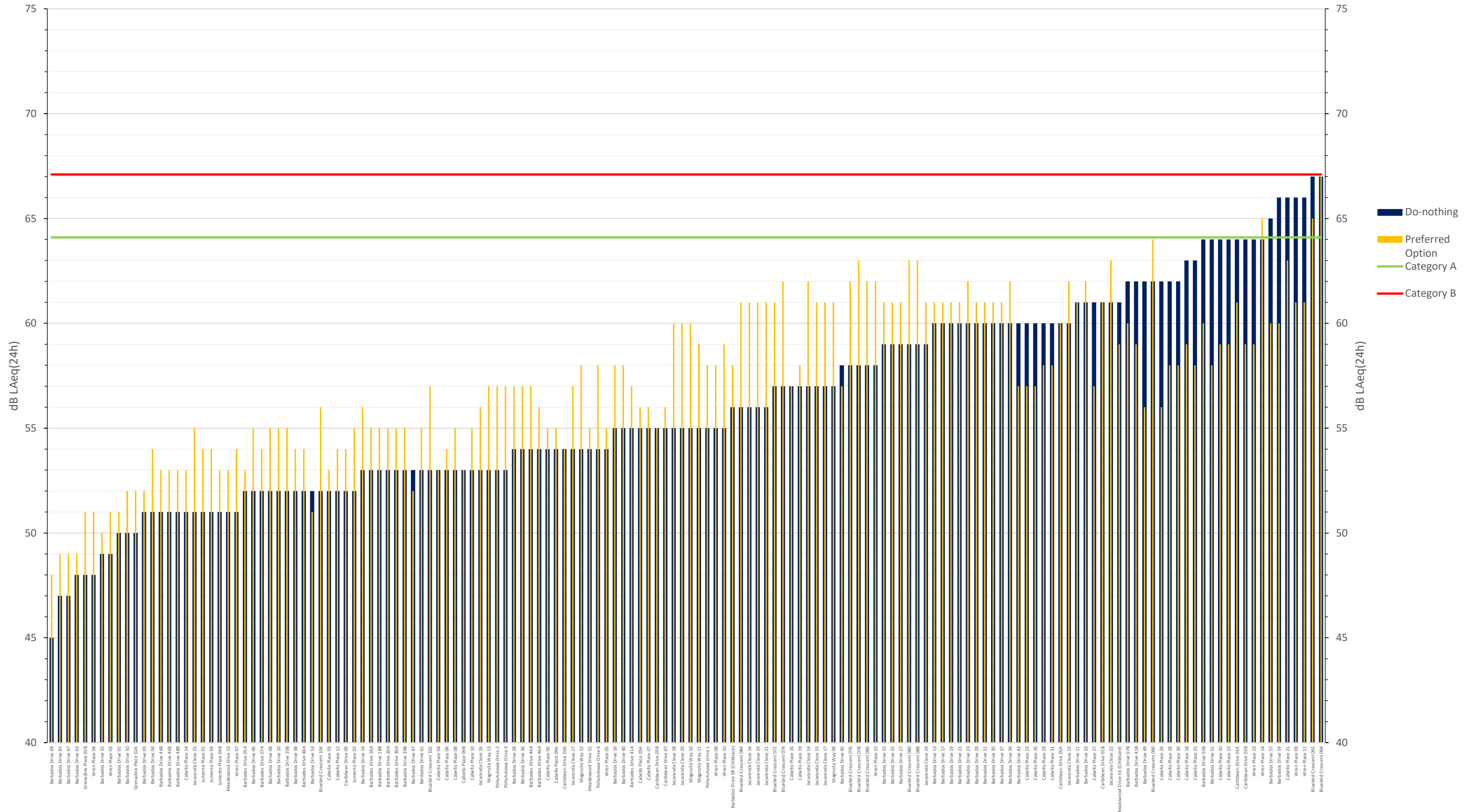
Annexure 6: Colliston Rise - Traffic Noise from SH1



Annexure 7 – Noise levels and changes for all existing PPFs



PPFs adjacent to Upper Harbour Highway (Assessment areas 4 to 8)



PPFs