

Appendix 3.9 Predicted Construction Noise Levels (Mitigated - Use of Quiet PMIE and Movable Noise Barriers)

Single Construction Noise Levels

ID	Construction Activities	SWL		Distance from Source, m		Predicted Noise Level, dB(A)	
		dB(A)		V06	V20	V06	V20
10	Site Clearance - Slip Roads A & F	103	23	278		71	49
20	Site Clearance - Slip Roads B & C	103	>300	60		--	63
30	Site Clearance - Slip Roads D & E	103	66	209		62	52
40	Site Formation - Slip Road A & F	104	23	278		72	50
50	Site Formation - Slip Road B & C	104	>300	60		--	63
60	Site Formation - Slip Road D & E	104	66	209		63	53
70	Construct Retaining Walls / Slope for Slip Roads	104	20	196		73	53
80	Construct Bored Piles - Slip Road A	110	254	280		57	56
90	Construct Bored Piles - Slip Road F	110	>300	280		--	56
100	Construct Bored Piles - Slip Road B	110	>300	64		--	69
120	Cast Pilecaps and Piers - Slip Road A	107	254	280		54	53
130	Cast Pilecaps and Piers - Slip Road F	107	>300	280		--	53
140	Cast Pilecaps and Piers - Slip Road B	107	>300	64		--	66
150	Construct Abutment - Slip Road A	107	214	292		56	53
160	Construct Abutment - Slip Road B	107	>300	>300		--	--
170	Construct Abutment - Slip Road F	107	>300	>300		--	--
70a	Construct Retaining Wall - Slip Road F	104	>300	>300		--	--
180	Construct Slip Road D and E	111	66	209		70	60
190	Widening of Castle Peak Road	111	293	>300		57	--
210	Erect Segments - Slip Road A & F	107	224	276		55	54
220	Erect Segments - Slip Road B (E)	106	>300	60		--	65
220a	Erect Segments - Slip Road B (W)	107	>300	80		--	64
230	Erect Segments for side span of Slip Roads A & F	109	214	272		57	55
240	Erect Segments for side span of Slip Road B (E)	109	>300	58		--	69
250	Concrete Parapet & install MJ - Slip Roads A & F	102	214	272		50	48
260	Concrete Parapet & install MJ - Slip Roads B	102	>300	58		--	61
270	Road Pavement & Road Marking - Slip Roads A & F	104	23	278		72	50
280	Road Pavement & Road Marking - Slip Roads B	104	>300	60		--	63
300	Construct Bored Piles - Bridge A	110	>300	>300		--	--
310	Construct Abutments - Bridge A	107	>300	>300		--	--
330	Deck Erection & Casting - Bridge A	109	>300	>300		--	--
340	Road Pavement - Bridge A	104	>300	>300		--	--

Note:

-- Noise level at this particular NSR is considered negligible since it is located more than 300m from the construction activity.
Bold value indicates the exceedance of noise criteria of 75 dB(A) for residential uses and 65 dB(A) for school during examination period.