Appendix 9.1: Construction Groundborne Noise Assessment Results - TBM

Project: SCL (HHS)

ltem	NSR	Location	Floor	Horizontal Distance		Vertical Distance		Slant Distance			1	Building	Floor to	Conversion	Conversion to		EIAO-TM	a 11 - 1
				Up Track	Down Track	Up Track	Down Track	Up Track	Down Track	Distance Attenuation	Source Term [1]	Coupling Loss		from Vibration to Noise	A-Weighted Noise Level	Predicted L _{eq 30min}	Criteria	Criteria Achieved?
1	DIH-11-1	Lung Wan House	1	80	65	25	25	84	70	-22.1	115.9	-10	-1	-27	-20	36	65	Yes

Note : [1] The source RMS vibration velocity of 0.625 mm/s is extracted from the approved EIA report^[9-3].

[2] A 5dB(A) redcution to the daytime criterion is adopted for school during examination period as the worst case scenario.

[2] A -18 dB shoud be adopted for coupling loss of bedrock to pile. However, this correction depends on actual site condition and as a conservative approach, 0 dB is assumed.