

Project : SCL - Tai Wai to Hung Hom Section

Title : Construction Noise Calculation

Scenario : Unmitigated Scenario

Subtitle : Ma Chai Hang Ventilation Building

Activities	2012												2013												2014												
	Jan	Feb	March	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	March	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	March	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	
Ma Chai Hang Ventilation Building Stage 1 S1 Mobilization													115																								
Site Clearance of Playground													121	121																							
Ma Chai Hang Ventilation Building Stage 2 S2 Guide Wall Construction															110																						
Diaphragm Wall Construction															115	115	115	115																			
Ma Chai Hang Ventilation Building Stage 3 S3 Jet Grounding																				113																	
Ma Chai Hang Ventilation Building Stage 4 S4 Excavation																					120	120															
Ma Chai Hang Ventilation Building Stage 5 S5 Installation of Struts and Waling																					113	113															
Tunnelling/Mining Operations																							116	116	116	116	116	116	116	116	116	116	116	116	116	116	
Construction of Station/Depot Structure Elements																																					
E&M Installation																																					
Ma Chai Hang Ventilation Building Stage 6 S6 Permanent Underground Structures																																					
Ma Chai Hang Ventilation Building Stage 7 S7 Backfilling and Reinstatement																																					
Ma Chai Hang Ventilation Building Stage 8 S8 Construction of Above Ground Structures																																					
Ma Chai Hang Ventilation Building S9 Reprovisioning Works																																					
						115	115	115	115	115	115	115																									

Summary of SWLs																																					
Ma Chai Hang Ventilation Building Stage 1 S1	0	0	0	0	0	0	0	0	0	0	0	0	122	121	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Ma Chai Hang Ventilation Building Stage 2 S2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	116	115	115	115	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Ma Chai Hang Ventilation Building Stage 3 S3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	113	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Ma Chai Hang Ventilation Building Stage 4 S4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	120	120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ma Chai Hang Ventilation Building Stage 5 S5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	113	113	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	
Ma Chai Hang Ventilation Building Stage 6 S6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ma Chai Hang Ventilation Building Stage 7 S7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ma Chai Hang Ventilation Building Stage 8 S8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ma Chai Hang Ventilation Building S9	0	0	0	0	0	115	115	115	115	115	115	115	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Predicted Construction Noise, dB(A)		Max																																					
DIH-4-2	77	77	0	0	0	0	0	66	66	66	66	66	66	66	66	77	76	71	70	70	70	68	76	76	71	71	71	71	71	71	71	71	71	71	71	71	71		
DIH-20-1	78	78	0	0	0	0	0	69	69	69	69	69	69	69	78	77	72	71	71	71	69	77	77	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	
DIH-21-1	81	81	0	0	0	0	0	70	70	70	70	70	70	70	81	80	75	74	74	74	71	80	80	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75
DIH-22-1	78	78	0	0	0	0	0	70	70	70	70	70	70	70	78	77	73	71	71	71	69	78	78	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72
DIH-23-1	77	77	0	0	0	0	0	72	72	72	72	72	72	72	77	76	72	70	70	70	68	77	77	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71

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Activities	2015												2016											
	Jan	Feb	March	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	March	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
Ma Chai Hang Ventilation Building Stage 1 S1 Mobilization Site Clearance of Playground																								
Ma Chai Hang Ventilation Building Stage 2 S2 Guide Wall Construction Diaphragm Wall Construction																								
Ma Chai Hang Ventilation Building Stage 3 S3 Jet Grounding																								
Ma Chai Hang Ventilation Building Stage 4 S4 Excavation																								
Ma Chai Hang Ventilation Building Stage 5 S5 Installation of Struts and Waling Tunnelling/Mining Operations Construction of Station/Depot Structure Elements E&M Installation	116	116	116	116	116	116	116	116	116	116	116	116	116	116										
Ma Chai Hang Ventilation Building Stage 6 S6 Permanent Underground Structures																		115	115					
Ma Chai Hang Ventilation Building Stage 7 S7 Backfilling and Reinstatement																				118				
Ma Chai Hang Ventilation Building Stage 8 S8 Construction of Above Ground Structures																					116	116		
Ma Chai Hang Ventilation Building S9 Reprovisioning Works																								

Summary of SWLs	Jan	Feb	March	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	March	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
Ma Chai Hang Ventilation Building Stage 1 S1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ma Chai Hang Ventilation Building Stage 2 S2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ma Chai Hang Ventilation Building Stage 3 S3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ma Chai Hang Ventilation Building Stage 4 S4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ma Chai Hang Ventilation Building Stage 5 S5	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	112	112	0	0	0	0	0	0	0
Ma Chai Hang Ventilation Building Stage 6 S6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	115	115	0	0	0	0	
Ma Chai Hang Ventilation Building Stage 7 S7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	118	0	0	0	
Ma Chai Hang Ventilation Building Stage 8 S8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	116	116	0	
Ma Chai Hang Ventilation Building S9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

Predicted Construction Noise, dB(A)	Max	Jan	Feb	March	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	March	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
DIH-4-2	77	71	71	71	71	71	71	71	71	71	71	71	0	71	71	71	67	67	70	70	73	71	71	0	0
DIH-20-1	78	72	72	72	72	72	72	72	72	72	72	72	0	72	72	72	68	68	71	71	73	72	72	0	0
DIH-21-1	81	75	75	75	75	75	75	75	75	75	75	75	0	75	75	75	71	71	74	74	76	75	75	0	0
DIH-22-1	78	72	72	72	72	72	72	72	72	72	72	72	0	73	73	73	68	68	72	72	74	72	72	0	0
DIH-23-1	77	71	71	71	71	71	71	71	71	71	71	71	0	72	72	72	67	67	71	71	73	71	71	0	0