Project : SCL - Stabling Sidings at Hung Hom Freight Yard

Title : Construction Noise Calculation
Scenario : Unmitigated Scenario
Subtitle: DIH + Retrieval Shafts

Activities	2012												2013												2014												2015												2016												2017					
	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	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
Worksite S1																																																																				
Site Clearance							121	121	121																																																										
Hoardings							115	115	115																																																										
Utility Diversions							116	116	116																																																										
MTR Site Office							117	117																																																											
Landscape & Finish																																													114	114	114	114	114	114																
Entrance (A2) - Construct bulk head wall								93	93	93																																																								
Entrance (A2) - Construct temp. access opening								93	93	93	93																																																							
Entrance (A2) - Construct staircase								93	93	93																																																								
Crosswall (15m) 1st Stage									111	111																																																								
Partial demolish Entrance (A2)											123	123	123	123																																																				
S Dwall (9m)														111	111																																																			
N Dwall (21m)															111	111																																																		
S Dwall (27m), W End D Wall (15m)															114	114																																																		
Partial TBM W Grout Block (By 1103)																116	116																																																	
Crosswall (55m) 2nd Stage																114	114	114																																																
Crosswall (60m) 3rd Stage																		114	114	114																																														
Entrance (A2) - Install ELS																		117	117	117	117																																														
Entrance (A2) - Install Pipe Pile Walls																		116	116	116																																														
Install ELS near Adit D1																		117	117	117																																														
Temp. site formation for Dwall construction (1)																		121	121																																															
N Dwall (21m), W End Dwall (15m)																			114	114	114	114	114																																												
Crosswall (42m) 4th Stage																				114	114	114																																												
Entrance (A2) - Demolish Subaway																					123	123																																												
Entrance (A2) - Install ELS & Structs																						117	117																																											
Temp. Site formation for Dwall construction (2)																						121	121																																											
Crosswall (36m) 5th Stage																						111	111	111	111																																										
Install ELS & Structs (West end)																							117	117	117																																										
Install pipe pile walls (West end)																							116	116	116																																										
Temp. Site formation for Dwall construction (3)																							121	121																																										
Install ELS near Adit D1																								117	117	117																																									
Excavation (West end to +6m)																									116	116	116																																								
Entrance (A2) - Construct Bulk Head Wall																											93	93																																						
Entrance (A2) - Construct partial floor slab & staircase																											93	93	93	93																																				
Excavate to -20.8																														116	116	116	116	116																															
Entrance (A2) - Install ELS																														117	117																																			
Entrance (A2) - Demolish Subway & Install Structs																															124	124																																	
Entrance (A2) - Excavation																																116	116																															
Entrance (A2) - Structures																																		93	93																													
Remaining TBM W Grout Block (By 1103)																																		116	116																													
DIH - Base Slab																																		93	93	93	93																									
DIH - Conc. Slab (with hole)																																					93	93	93	93																						
DIH - Mezz. Slab																																							93	93	93	93																			
DIH - columns																																								93	93																		
DIH - 24hr Access Slab (with hole)																																									93	93	93																
DIH - Roof Slabs (with hole)																																												93	93	93														
DIH - Slabs (completion)																																															93	93	93												
Internal Structures - Platform level (1)																																																	93	93	93										
Internal Structures - Mezz. Level																																																	93	93	93	93	93							
Internal Structures - Conc. Level																																																	93	93	93	93	93							
Internal Structures - 24hr Access Level																																																	93	93	93	93	93							
DIH - Ground Level Structures																																																	111	111	111	111	111							
Internal Structures - Platform Level (2)																																																	93	93	93	93	93							
DIH Tx Rms - Structures																																																					116	116						
Worksite S2																																																																	
Site Clearance							121	121	121																																																								
Hoardings							115	115	115																																																								
Utility Diversions							116	116	116																																																								
MTR Office							117	117																																																									
Landscape & Finish																																													114	114	114	114	114	114												
S Dwall (57m)									114	114	114																																																					
N Dwall (39m)																114	114																																															
Excavate to -5.2																								121																																								
Excavate to -20.8																										119	119																																				
DIH - Base Slab																																		93	93	93	93																									
DIH - Mezz. Slab																																					93	93	93																							
DIH - Columns																																					93	93	93	93	93	93																		
DIH - Conc. Slab																																							93	93	93	93																		
Internal Structures - Platform Level																																							93	93	93	93	93	93																
DIH - 24hr Access Slab																																										93	93	93																
Internal Structures - Mezz. Level																																										93	93	93	93	93													
DIH - Roof Slab																																													93	93	93													
Internal Structures - Conc. Level																																													93	93	93	93	93	93								
Internal Structures - 24hr Access Level																																													93	93	93	93	93	93								

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	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	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
Worksite S3																																																																			
Site Clearance							121	121	121																																																										
Hoardings							115	115	115																																																										
Utility Diversions							116	116	116																																																										
MTR Site Office							117	117																																																											
Landscape & Finish																																													114	114	114	114	114	114																
S DWall (33m)											111																																																							
N DWall (35m)											111	111																																																							
N Dwall (36m)															114	114																																																			
S Dwall (26m)																111	111																																																		
Excavate to -1.2																					119	119																																													
Excavate to -11.4																								119	119																																											
Excavate to -20.8																											119	119																																								
DIH - Base Slab																												93	93	93	93																																					
DIH - Mezz. Slab																															93	93	93																																		
DIH - Columns																															93	93	93	93	93																															
DIH - Conc. Slab																																	93	93	93																																
Internal Structures - Platform Level																																	93	93	93	93	93	93																													
DIH - Roof Slab																																			93	93	93	93																													
Internal Structures - Mezz. Level																																			93	93	93	93	93	93																									
Internal Structures - Conc. Level																																						93	93	93	93	93																									
Worksite S4																																																																			
Site Clearance							121	121	121																																																									
Hoardings							115	115	115																																																									
Utility Diversions							116	116	116																																																									
MTR Site Office							117	117																																																										
Landscape & Finish																																													114	114	114	114	114	114																
N DWall (47m)												114	114	114																																																				
S Dwall (35m)																	114	114	114																																																
Tree Transplanting (CAT D) - DT1885																		119	119																																															
Excavate to -1.2																			119	119																																														
Excavate to -11.4																						116	116																																												
Excavate to -20.8																									116	116																																									
DIH - Base Slab																										93	93	93																																							
DIH - Mezz. Slab																												93	93	93	93																																			
DIH - Columns																												93	93	93	93	93	93																																
DIH - Conc. Slab																															93	93	93																																
Internal Structures - Platform Level																															93	93	93	93	93																													
DIH - Roof Slab																																	93	93	93																													
Internal Structures - Mezz. Level																																	93	93	93	93	93																									
Internal Structures - Conc. Level																																				93	93	93	93	93																							
Worksite S5																																																																			
Site Clearance							121	121	121																																																									
Hoardings							115	115	115																																																									
Utility Diversions							116	116	116																																																									
MTR Site Office							117	117																																																										
Landscape & Finish																																													114	114	114	114	114	114																
S DWall (30m)														114	114																																																				
E End DWall (30m)																114	114	114																																																
N DWall (54m)																	116	116																																																
TBM E Grout Block (By 1107)																		116	116																																															
S DWall (36m)																		114	114																																															
Excavate to -1.2																			119	119																																														
Excavate to -11.4																				119	119																																													
Excavate to -20.8																							119	119																																										
DIH - Base Slab																									93	93	93																																							
DIH - Conc.. Slab (with hole)																											93	93	93																																				
DIH - Columns																														93	93																																	
DIH - Roof Slab (with hole)																															93	93	93																														
DIH - Mezz. Slab																																					93	93	93	93																						
DIH - Slabs (completion)																																					93	93	93	93																						
Internal Structures - Platform Level (1)																																								93	93	93																				
Internal Structures - Mezz. Level																																								93	93	93	93	93																
Internal Structures - Conc. Level																																								93	93	93	93	93																
DIH - Ground Level Structures																																								116	116	116	116	116																
Internal Structures - Platform Level (2)																																								93	93	93	93	93																

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	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	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
Worksite S6																																																																				
Watermain Diversion (LCR)							116	116	116																																																											
Gas Main Diversion (LCR)							116	116	116																																																											
LCR Diversion Embankment Fill															122	122	122																																																				
LCR E/B Widening																					122	122	122																																														
LCR E/B Diversion Traffic																								122																																													
LCR E/B Reinstatement																																	122	122																																		
LCR E/B to Original Traffic																																		122																																	
Worksite S7																																																																				
Watermain Diversion (LCR)							116	116	116																																																										
Gas Main Diversion (LCR)							116	116	116																																																										
LCR Diversion Embankment Fill															122	122	122																																																			
LCR W/B Diversion Construction																122	122	122																																																		
LCR W/B Deck Consturction																122	122	122																																																		
LCR W/B Diverstion Traffic																		122																																																	
LCR W/B Reinstatement																																				122	122																																
LCR W/B to Original Traffic																																					122																															
Worksite S8																																																																				
Interchange Adit - Construct Barettes							121	121	121																																																										
Interchange Adit - ELS (Part 1)												117	117	117																																																						
Interchange Adit - Excavation (Part 1)														116	116	116																																																				
Interchange Adit - Structure (Part 1)																93	93	93																																																		
Adit D1 - ELS																		117	117																																																
Interchange Adit - ELS (Part 2)																		117	117	117																																															
Adit D1 - Excavation																			116	116	116	116																																														
Adit D1 -Structures																						93	93																																													
Adit D1 - Backfill																							118	118																																												
Interchange Adit - Excavation (Part 2)																							116	116	116																																											
Adit D1 - ELS (Part 2)																								117	117																																											
Adit D1 - Excavation (Part 2)																									116	116	116																																									
Interchange Adit -Structure (Part 2)																									93	93	93																																									
Interchange Adit - Backfill (Part 2)																											118																																								
Adit D1 -Structures (Part 2)																											93	93	93																																						
Interchange Adit - ELS (Part 3)																											117	117	117																																						
Interchange Adit - Excavation (Part 3)																													116	116	116																																		
Interchange Adit - Structure (Part 3)																															93	93	93																																
MOE (near B1) - ELS																																																	117	117																
MOE (near B1) - Excavation																																																		116	116														
MOE (near B1) - Structures																																																				93	93	93											
Construction of Retrieval shaft at DIH Interchange/Adit																											102			102						102											102																		
Worksite S9																																																																			
Mobilization						109	109																																																											
A1 Lift - Site Clearance, Hoarding Erection																																							114																											
A1 Lift - Pre drilling works																																								114	114																									
A1 Lift - Construct rpe-bored H piles (6 no.)																																									114	114	114																					
A1 Lift - Grouting works																																											112																				
A1 Lift - Sheet pilling works																																												116	116																	
A1 Lift - Excavation & ELS																																														115															
A1 Lift - Wall strengthening works																																															115													
A1 Lift - Construct Lift shaft, wall & slab																																																115	115	115											
Worksite S10																																																																	
Mobilization									117																																																								
Site Clearance										121	121																																																					
Worksite S11																																																																	
Mobilization									117																																																							
Site Clearance										121	121																																																				
Worksite S12																																																																	
Utilities Diversion																																																																
Worksite S13																																																																
A1 Lift - TTMs																																							112																									

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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
Summary of SWLs																																				
Worksite S1	0	0	0	0	0	0	124	124	123	112	123	123	123	124	117	120	118	125	125	123	125	127	126	124	123	119	116	96	93	119	125	125	119	119	116	93
Worksite S2	0	0	0	0	0	0	124	124	123	114	114	0	0	0	0	114	114	0	0	0	0	0	0	121	0	119	119	0	0	0	0	0	0	93	93	93
Worksite S3	0	0	0	0	0	0	124	124	123	0	114	111	0	0	114	116	111	0	0	0	119	119	0	119	119	0	119	119	93	93	98	96	99	98	100	98
Worksite S4	0	0	0	0	0	0	124	124	123	0	0	114	114	114	0	0	114	120	123	119	0	116	116	0	116	116	93	98	96	96	99	98	100	98	98	96
Worksite S5	0	0	0	0	0	0	124	124	123	0	0	0	0	114	114	114	118	121	122	122	119	0	119	119	93	93	96	93	93	93	96	93	93	0	0	0
Worksite S6	0	0	0	0	0	0	119	119	119	0	0	0	0	0	122	122	122	0	0	0	122	122	122	122	0	0	0	0	0	0	0	0	122	125	0	0
Worksite S7	0	0	0	0	0	0	119	119	119	0	0	0	0	0	122	127	127	127	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	122
Worksite S8	0	0	0	0	0	0	121	121	121	0	0	117	117	119	116	116	93	120	121	119	116	116	120	122	121	116	122	117	119	116	116	93	93	0	0	102
Worksite S9	0	0	0	0	0	109	109	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
Worksite S10	0	0	0	0	0	0	0	0	117	121	121	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
Worksite S11	0	0	0	0	0	0	0	0	117	121	121	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
Worksite S12	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
Worksite S13	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

Activities	2015												2016												2017					
	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
Summary of SWLs																														
Worksite S1	96	93	96	98	98	96	93	93	93	114	114	114	114	116	116	111	111	111	116	116	0	0	0	0	0	0	0	0	0	0
Worksite S2	98	96	99	98	98	100	98	100	98	114	114	114	114	114	114	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Worksite S3	98	99	96	96	93	93	93	0	0	117	117	117	117	117	114	114	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Worksite S4	96	96	93	93	0	0	0	0	0	0	114	114	114	114	114	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Worksite S5	0	96	96	96	116	116	116	116	116	114	114	114	114	114	114	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Worksite 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
Worksite S7	125	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
Worksite S8	0	0	0	0	0	0	0	0	0	102	0	117	119	116	93	93	93	0	0	0	0	0	0	0	0	0	0	0	0	0
Worksite S9	0	0	0	114	114	117	114	116	116	116	115	115	115	115	115	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Worksite S10	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
Worksite S11	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
Worksite S12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	116	116	116	116	116	116	0	0	0	0	0	0
Worksite S13	0	0	112	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

Predicted Construction Noise, dB(A)	Max																																			
DIH-9-1	77	0	0	0	0	0	55	76	76	76	69	73	72	72	73	73	76	76	77	74	73	75	76	76	76	73	71	71	63	66	69	74	74	71	73	65
DIH-10-1	77	0	0	0	0	0	55	76	76	76	69	73	72	72	73	73	76	75	77	74	73	75	76	76	75	72	70	71	63	65	69	74	74	70	72	65
DIH-11-1	88	0	0	0	0	0	77	87	87	86	75	81	82	81	82	85	88	88	88	84	82	85	86	86	86	83	80	82	76	77	78	83	82	81	84	73
DIH-12-1	81	0	0	0	0	0	60	81	81	81	72	75	74	74	75	78	80	80	81	78	77	78	79	79	80	76	73	76	72	71	71	75	73	75	78	64
DIH-12-2	82	0	0	0	0	0	65	82	81	81	70	75	75	75	76	78	81	80	81	79	77	79	80	80	80	77	74	76	72	71	72	76	76	76	78	67
DIH-13-1	75	0	0	0	0	0	0	71	71	71	58	70	70	70	70	69	73	73	75	71	70	72	73	73	71	69	66	62	42	39	66	72	72	65	66	63
DIH-14-1	75	0	0	0	0	0	0	74	74	74	70	70	61	61	65	69	73	74	75	72	71	67	62	68	67	62	62	45	46	44	44	47	46	47	44	44
DIH-14-3	62	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
DIH-14-4	78	0	0	0	0	0	0	78	78	78	73	73	67	66	69	73	76	76	77	75	74	73	72	73	74	71	67	70	68	65	62	62	49	68	71	50
DIH-14-5	77	0	0	0	0	0	0	77	77	77	72	72	66	65	69	73	76	76	77	75	74	73	71	73	73	70	66	69	67	65	62	62	49	68	71	48
DIH-15-1	67	0	0	0	0	0	0	0	0	63	67	67	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DIH-15-2A	62	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

Predicted Construction Noise, dB(A)	2014												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	Jan	Feb	March	Apr	May	June
DIH-9-1	73	45	48	62	61	64	61	62	62	66	66	66	68	69	68	60	60	60	65	65	0	0	0	0	0	0	0	0	0	0
DIH-10-1	72	45	48	60	60	63	60	62	62	66	66	66	68	69	68	60	60	60	65	65	0	0	0	0	0	0	0	0	0	0
DIH-11-1	84	56	57	83	82	85	82	84	84	84	83	83	84	85	84	70	68	68	73	73	0	0	0	0	0	0	0	0	0	0
DIH-12-1	76	53	52	67	68	70	68	69	69	72	72	72	74	75	73	65	59	59	64	64	0	0	0	0	0	0	0	0	0	0
DIH-12-2	77	52	53	71	71	73	70	72	72	74	74	74	75	76	75	65	62	62	66	66	0	0	0	0	0	0	0	0	0	0
DIH-13-1	71	39	42	44	44	42	39	39	39	60	60	60	60	62	62	58	58	58	63	63	0	0	0	0	0	0	0	0	0	0
DIH-14-1	71	46	45	45	64	64	64	64	64	64	64	64	64	64	64	0	0	0	0	68	68	68	68	68	68	0	0	0	0	0
DIH-14-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	62	62	62	62	62	62	0	0	0	0	0
DIH-14-4	72	50	48	48	66	66	66	66	66	68	68	68	69	70	68	61	39	39	0	71	71	71	71	71	71	0	0	0	0	0
DIH-14-5	72	49	48	48	66	66	66	66	66	67	67	67	69	69	68	59	39	39	0	71	71	71	71	71	71	0	0	0	0	0
DIH-15-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	63	63	63	63	63	63	0	0	0	0	0
DIH-15-2A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	62	62	62	62	62	62	0	0	0	0	0