Project : SCL - Tai Wai to Hung Hom Section

Title : Construction Noise Calculation
Scenario : Unmitigated Scenario
Subtitle : TKW Station + Adit + Underpinning + Launching Shaft

Activities	2011												2012												2013												2014												2015											
	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
Worksite S1																																																												
Mobilization & Site Setup																		120	124	125																																								
Box Culvertt Diversions - North East End of Site																											121	121	121	121	121	121	121	121	121	121	121	121																										
Grouting/Dewatering - Around Perimetrer of Site																					118	118	118													118	118	118																								
Grouting/Dewatering - Around Perimetrer of Site																					113	113	113				113	113	113																																
Grouting/Dewatering - Around Perimetrer of Site																					102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102						
Grouting/Dewatering - Around Perimetrer of Site																																																								98	98	98	98	98	98	98
ELS - South West End of site									124	124	124	124																																																	
Open Excavation - South West End of Site																									128	112	112	112	112	112																															
Open Excavation - North East End of Site																																						127	127	127	127	127	127	127	127	127	127														
Structure - South West End of Site																															120	120	120	120	120	120	120	120	121	121									121	121	121	121	121	120	120	120	120	120	120	120
Station Fit Out																																																	118	118	118	118	118	118	118	118	118	118	118	118
Worksite S2																																																													
Adit B Phase 1									123	123	123	123	123																																																
Worksite S3																										123	123	123	123																																
Adit B - Phase 2																																																													
Worksite S4																														123	123	123	123	123	123																										
Adit B - Phase 3																																																													
Worksite S5																																		123	123	123	123	123	123	123	123	123																			
Adit B - Phase 4																																																													
Adit B - Reinstatement of Roundabout																																																									122	122	122	122
Worksite S6																																											123	123	123	123															
Adit B - Phase 5																																																													
Worksite S7																																																							123	123	123	123	123	123	123	123
Adit B - Phase 6																																																														
Worksite S8																					122	122	122	122	122	122	122	122	122	122	122																															
Adit C - Phase 1																																																													
Adit C - Reinstatement of Roads & Landscaping																																																							122	122	122	122	122			
Worksite S9																																122	122	122	122																										
Adit C - Phase 2																																																													
Adit C - Reinstatement of Roads & Landscaping																																																						122	122	122	122	122			
Worksite S10																																				122	122	122	122	122																					
Adit C - Phase 3																																																													
Adit C - Reinstatement of Roads & Landscaping																																																						122	122	122	122	122			
Worksite S11																																								122	122	122	122	122	122															
Adit C - Phase 4																																																													
Adit C - Reinstatement of Roads & Landscaping																																																						122	122	122	122	122			
Worksite S13																																					105																105								
TBM Tunnel Plant at TKW																																					115	115	115																						
TBM Tunnel Plant at TKW																																								121	121	121	121	121	121	121	121	121	121	121	121	121	121	121	121	121	121	121	121	121
Worksite S14																		118	118																																										
Site Clearance and Erection of hoarding																																																													
Sheeting and Lateral Support System																				121	121	121	121	121	121	121	121	121	121																																
Bulk excavation of soft soil and dewatering																																																													
Construct Tunnel																																																													
Backfill and compaction																																				123	123	123	123	123	123	123																				
Worksite S15																												118	118																																	
Site Clearance and Erection of hoarding																																																													
Sheeting and Lateral Support System																														121	121																																
Bulk excavation of soft soil and dewatering																																																													
Canopy Pipe Pile Construction																																																													
Construct Tunnel																																																													
Backfill and compaction																																																						123	123	123						
Worksite S16																																118	118																													
Site Clearance and Erection of hoarding																																																													
Bulk excavation of soft soil and dewatering																																																													
Construct Tunnel																																																													
Backfill and compaction																																																								123	123	123	123			
Worksite S18																							120	120	120																																				
Bored Piling - phase 1																																																													
Worksite S19																										125	125	125	124	124																																	
Bored Piling - phase 2																																																													

Note: Excavation, Bulk excavation of soft soil and dewatering, Insallation of Structs and Waling, Canopy Pipe Pile Construction and tunnel construction at worksites s14, s15 and s16 are under cut and cover tunnel part, construction noise impacts are not anticipated.

Summary of SWLs																																																														
Worksite S1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	120	124	125	125	125	125	124	128	113	122	122	122	122	124	124	124	124	124	125	125	125	128	128	127	127	127	127	127	127	127	121	123	123	123	123	122	122	122	122	122	122	122	122
Worksite S2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	123	123	123	123	123	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 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	0	123	123	123	123	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 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	0	0	0	0	0	123	123	123	123	123	123	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 S5	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	123	123	123	123	123	123	123	123	123	123	0	0	0	0	0	0	0	0	0	0	0	122	122	122	122
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	0	0	0	0	0	0	0	0	0	0	0	0	123	123	123	123	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Worksite 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	0	0	0	0	0	0	0	0	0	0	123	123	123	123	123	123	123	123	123	0	0	0	0
Worksite S8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	122	122	122	122	122	122	122	122	122	122	122	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	122	122	122	122	122	0	0	0	0	0	0	0	0
Worksite S9	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	122	122	122	122	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	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	122	122	122	122	122	0	0	0	0	0	0	0	122	122	122	122	122	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	0	0	0	0	0	0	0	0	0	122	122	122	122	122	122	122	122	122	122	122	122	122	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	115	115	115	121	121	121	121	121	121	121	121	121	121	121	121	121	121	121	121	121	121	121	121	121
Worksite S14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	118	118	121	121	121	121	121	121	121	121	121	0	0	0	0	0	0	0	123	123	123	123	123	123	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Worksite S15	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	118	118	121	121	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	123	123	123	0	0	0	0	0	0	0	0
Worksite S16	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	118	118	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	123	123	123	0	0	0	0	0
Worksite S18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	120	120	120	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 S19	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	125	125	125	124	124	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)	Max																																																													
MTW-6-1	83	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	67	71	71	79	79	79	79	80	78	79	79	79	78	78	78	78	78	78	78	78	79	79	79	79	79	79	79	79	83	83	83	83	83	71	71	71	71	71	71	71	71	71
MTW-6-2	81	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	68	72	72	77	77	78	78	79	75	76	76	76	76	77	76	76	76	76	76	76	78	78	78	78	78	78	78	78	81	80	80	80	80	72	72	72	72	72	72	72	72	72	72
TKW-1-1	94	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	68	72	72	83	83	84	84	84	83	83	83	83	83	83	87	87	87	87	88	88	88	89	89	91	91	91	91	91	94	94	94	94	94	73	72	72	72	72	72	72	72	72
TKW-1-2	88	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	67	71	71	79	79	80	80	80	79	80	80	79	79	79	81	81	81	81	82	82	82	82	82	86	86	86	86	86	88	88	88	88	88	71	71	71	71	71	71	71	71	71
TKW-2-2	90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	67	71	72	80	80	81	81	81	80	81	81	80	80	80	82	82	82	82	83	83	83	83	83	87	87	87	87	87	90	90	90	90	90	72	71	71	71	71	71	71	71	71
TKW-2-1	87	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	66	70	71	78	78	79	79	79	78	78	78	78	78	77	79	79	79	79	80	80	80	81	81	84	84	84	84	84	87	87	87	87	87	71	70	70	70	70	70	70	70	70
TKW-3-2	96	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	67	71	72	75	75	76	75	77	76	76	76	77	76	76	76	76	81	81	80	80	80	81	81	81	81	81	96	95	95	95	90	90	90	90	90	90	90	90	90	78	78	78	78
TKW-3-1	82	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	69	72	73	76	76	76	76	78	76	77	77	77	77	76	76	76	79	79	78	78	78	79	79	79	79	79	82	81	81	81	80	81	81	81	81	80	80	80	80	77	77	77	77
TKW-2-3	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	67	71	72	76	76	77	77	78	75	76	76	76	75	75	75	75	75	75	76	76	76	77	77	77	77	77	77	77	80	79	80	80	80	72	72	72	72	72	72	72	72	72	72
TKW-4-1	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TKW-5-1	69	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	63	63	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	69	69	69	69	0	0	0

Project : SCL - Tai Wai to Hung Hom Section

Title : Construction Noise Calculation
Scenario : Unmitigated Scenario
Subtitle : TKW Station + Adit + Underpinning + Launching Shaft

Activities	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
Worksite S1																								
Mobilization & Site Setup																								
Box Culvertt Diversions - North East End of Site																								
Grouting/Dewatering - Around Perimetrer of Site																								
Grouting/Dewatering - Around Perimetrer of Site																								
Grouting/Dewatering - Around Perimetrer of Site																								
Grouting/Dewatering - Around Perimetrer of Site	98	98	98	98	98	98	98	98																
ELS - South West End of site																								
Open Excavation - South West End of Site																								
Open Excavation - North East End of Site																								
Structure - South West End of Site	120																							
Station Fit Out	118	118	118	118	118	118	118	118	118	118	118	118	118	118	118	118	118	118						
Worksite S2																								
Adit B Phase 1																								
Worksite S3																								
Adit B - Phase 2																								
Worksite S4																								
Adit B - Phase 3																								
Worksite S5																								
Adit B - Phase 4																								
Adit B - Reinstatement of Roundabout																								
Worksite S6																								
Adit B - Phase 5																								
Worksite S7																								
Adit B - Phase 6																								
Worksite S8																								
Adit C - Phase 1																								
Adit C - Reinstatement of Roads & Landscaping																								
Worksite S9																								
Adit C - Phase 2																								
Adit C - Reinstatement of Roads & Landscaping																								
Worksite S10																								
Adit C - Phase 3																								
Adit C - Reinstatement of Roads & Landscaping																								
Worksite S11																								
Adit C - Phase 4																								
Adit C - Reinstatement of Roads & Landscaping																								
Worksite S13																								
TBM Tunnel Plant at TKW																								
TBM Tunnel Plant at TKW																								
TBM Tunnel Plant at TKW	121	121	121																					
Worksite S14																								
Site Clearance and Erection of hoarding																								
Sheeting and Lateral Support System																								
Bulk excavation of soft soil and dewatering																								
Construct Tunnel																								
Backfill and compaction																								
Worksite S15																								
Site Clearance and Erection of hoarding																								
Sheeting and Lateral Support System																								
Bulk excavation of soft soil and dewatering																								
Canopy Pipe Pile Construction																								
Construct Tunnel																								
Backfill and compaction																								
Worksite S16																								
Site Clearance and Erection of hoarding																								
Bulk excavation of soft soil and dewatering																								
Construct Tunnel																								
Backfill and compaction																								
Worksite S18																								
Bored Piling - phase 1																								
Worksite S19																								
Bored Piling - phase 2																								

Note: Excavation, Bulk excavation of soft soil and dewatering, Insallation of Structs and Waling, Canopy Pipe

Summary of SWLs																								
Worksite S1	122	118	118	118	118	118	118	118	118	118	118	118	118	118	118	118	118	118	0	0	0	0	0	0
Worksite 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
Worksite 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
Worksite 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
Worksite S5	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 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
Worksite 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
Worksite 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
Worksite S9	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	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
Worksite S13	121	121	121	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Worksite S14	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 S15	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 S16	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 S18	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 S19	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																							
MTW-6-1	83	71	69	69	65	65	65	65	65	64	64	64	64	64	64	64	64	64	0	0	0	0	0	0
MTW-6-2	81	72	70	70	66	66	66	66	66	65	65	65	65	65	65	65	65	65	0	0	0	0	0	0
TKW-1-1	94	72	70	70	66	66	66	66	66	65	65	65	65	65	65	65	65	65	0	0	0	0	0	0
TKW-1-2	88	71	69	69	65	65	65	65	65	64	64	64	64	64	64	64	64	64	0	0	0	0	0	0
TKW-2-2	90	71	69	69	65	65	65	65	65	64	64	64	64	64	64	64	64	64	0	0	0	0	0	0
TKW-2-1	87	70	69	69	64	64	64	64	64	63	63	63	63	63	63	63	63	63	0	0	0	0	0	0
TKW-3-2	96	71	69	69	65	65	65	65	65	64	64	64	64	64	64	64	64	64	0	0	0	0	0	0
TKW-3-1	82	73	71	71	67	67	67	67	67	66	66	66	66	66	66	66	66	66	0	0	0	0	0	0
TKW-2-3	80	72	70	70	65	65	65	65	65	65	65	65	65	65	65	65	65	65	0	0	0	0	0	0
TKW-4-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TKW-5-1	69	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0