Project : SCL - Tai Wai to Hung Hom Section

Title : Construction Noise Calculation

Scenario : Unmitigated Scenario

Subtitle: KAT + Cut & Cover

Activities	2012 Jan	Feb	March	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
Worksite S1												
Site clearance and erection of hoarding						118	118	118	118	118		
Bulk excavation of soft soil and dewatering											121	121
Station Structure Construction												
Backfill and compaction												
Sheeting and Lateral Support System												
BS Installation and ABWF works												
Worksite S3												
Mobilization						116	116	116				
Breaking of Airfield Pavement								120	120	120		
Diaphragm Wall Construction										112	112	112
Excavation												
Installation of Struts and Waling												
Tunnel Construction												
Backfilling and Reinstatement												
Worksite S4												
Mobilization						116	116	116				
Breaking of Airfield Pavement								121	121	121		
Diaphragm Wall Construction										112	112	112
Excavation												
Installation of Struts and Waling												
Tunnel Construction												
Backfilling and Reinstatement												
Worksite S5												
Site Clearance and Erection of hoarding						118	118					
Sheeting and Lateral Support System								121	121	121	121	121
Bulk excavation of soft soil and dewatering												
Construct Tunnel												
Backfill and compaction												
Worksite S6												
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 S7												
Site Clearance and Erection of hoarding												
Bulk excavation of soft soil and dewatering												
Construct Tunnel												
Backfill and compaction												

Activities	2013 Jan	Feb	March	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
Worksite S1												
Site clearance and erection of hoarding												
Bulk excavation of soft soil and dewatering	121	121	121	121	121	121	121	121	121	121	121	121
Station Structure Construction		118	118	118	118	118	118	118	118	118	118	118
Backfill and compaction												
Sheeting and Lateral Support System												
BS Installation and ABWF works												
Worksite S3												
Mobilization												
Breaking of Airfield Pavement												
Diaphragm Wall Construction	112	112	112	112	112	112	112					
Excavation												
Installation of Struts and Waling												
Tunnel Construction												
Backfilling and Reinstatement												
Worksite S4												
Mobilization												
Breaking of Airfield Pavement												
Diaphragm Wall Construction	112	112	112	112	112	112	112					
Excavation												
Installation of Struts and Waling												
Tunnel Construction												
Backfilling and Reinstatement												
Worksite S5												
Site Clearance and Erection of hoarding												
Sheeting and Lateral Support System	121	121	121	121	121							
Bulk excavation of soft soil and dewatering												
Construct Tunnel												
Backfill and compaction												123
Worksite S6												
Site Clearance and Erection of hoarding				118	118							
Sheeting and Lateral Support System						121	121					
Bulk excavation of soft soil and dewatering												
Canopy Pipe Pile Construction												
Construct Tunnel												
Backfill and compaction												
Worksite S7												
Site Clearance and Erection of hoarding								118	118			
Bulk excavation of soft soil and dewatering												
Construct Tunnel												
Backfill and compaction												

Activities	2014 Jan	Feb	March	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
Worksite S1												
Site clearance and erection of hoarding												
Bulk excavation of soft soil and dewatering	121	121	121	121	121	121	121	121	121	121	121	121
Station Structure Construction	118	118	118	118	118	118	118	118	118	118	118	118
Backfill and compaction				125	125	125	125	125	125	125	125	125
Sheeting and Lateral Support System							118	118	118	118	118	118
BS Installation and ABWF works												
Worksite S3												
Mobilization												
Breaking of Airfield Pavement												
Diaphragm Wall Construction												
Excavation												
Installation of Struts and Waling												
Tunnel Construction												
Backfilling and Reinstatement												
Worksite S4												
Mobilization												
Breaking of Airfield Pavement												
Diaphragm Wall Construction												
Excavation												
Installation of Struts and Waling												
Tunnel Construction												
Backfilling and Reinstatement												
Worksite S5												
Site Clearance and Erection of hoarding												
Sheeting and Lateral Support System												
Bulk excavation of soft soil and dewatering												
Construct Tunnel												
Backfill and compaction	123	123	123	123	123	123						
Worksite S6												
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 S7												
Site Clearance and Erection of hoarding												
Bulk excavation of soft soil and dewatering												
Construct Tunnel												
Backfill and compaction												

Activities	2015 Jan	Feb	March	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
Worksite S1												
Site clearance and erection of hoarding												
Bulk excavation of soft soil and dewatering	121	121	121	121	121							
Station Structure Construction	118											
Backfill and compaction	125	125	125	125								
Sheeting and Lateral Support System	118	118	118									
BS Installation and ABWF works					124	124	124	124	124	124	124	124
Worksite S3												
Mobilization												
Breaking of Airfield Pavement												
Diaphragm Wall Construction												
Excavation												
Installation of Struts and Waling												
Tunnel Construction												
Backfilling and Reinstatement						118	118	118	118			
Worksite S4												
Mobilization												
Breaking of Airfield Pavement												
Diaphragm Wall Construction												
Excavation												
Installation of Struts and Waling												
Tunnel Construction												
Backfilling and Reinstatement						118	118	118	118			
Worksite S5												
Site Clearance and Erection of hoarding												
Sheeting and Lateral Support System												
Bulk excavation of soft soil and dewatering												
Construct Tunnel												
Backfill and compaction												
Worksite S6												
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			123	123	123							
Worksite S7												
Site Clearance and Erection of hoarding												
Bulk excavation of soft soil and dewatering												
Construct Tunnel												
Backfill and compaction						123	123	123	123			

Activities	2016 Jan	Feb	March	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
Worksite S1												
Site clearance and erection of hoarding												
Bulk excavation of soft soil and dewatering												
Station Structure Construction												
Backfill and compaction												
Sheeting and Lateral Support System												
BS Installation and ABWF works	124	124										
Worksite S3												
Mobilization												
Breaking of Airfield Pavement												
Diaphragm Wall Construction												
Excavation												
Installation of Struts and Waling												
Tunnel Construction												
Backfilling and Reinstatement												
Worksite S4												
Mobilization												
Breaking of Airfield Pavement												
Diaphragm Wall Construction												
Excavation												
Installation of Struts and Waling												
Tunnel Construction												
Backfilling and Reinstatement												
Worksite S5												
Site Clearance and Erection of hoarding												
Sheeting and Lateral Support System												
Bulk excavation of soft soil and dewatering												
Construct Tunnel												
Backfill and compaction												
Worksite S6												
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 S7												
Site Clearance and Erection of hoarding												
Bulk excavation of soft soil and dewatering												
Construct Tunnel												
Backfill and compaction												

Note: Excavation, Bulk excavation of soft soil and dewatering, Insallation of Structs and Waling, Canopy Pipe Pile Construction and tunnel construction at worksites s3, s4, s5, s6 and s7 are under cut and cover tunnel part, construction noise impacts are not anticipated.

Summary of SWLs																																																												
Worksite S1	0	0	0	0	0	118	118	118	118	118	121	121	121	123	123	123	123	123	123	123	123	123	123	123	123	123	123	127	127	127	128	128	128	128	128	128	128	127	127	126	126	124	124	124	124	124	124	124	124	124	0	0	0	0	0	0	0	0	0	0
Worksite S3	0	0	0	0	0	116	116	122	120	121	112	112	112	112	112	112	112	112	112	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	118	118	118	118	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Worksite S4	0	0	0	0	0	116	116	122	121	122	112	112	112	112	112	112	112	112	112	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	118	118	118	118	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Worksite S5	0	0	0	0	0	118	118	121	121	121	121	121	121	121	121	121	121	0	0	0	0	0	0	123	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	0	0	0	0	0
Worksite S6	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	123	123	123	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	118	118	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

Predicted Construction Noise, dB(A)	Max																																																											
DIH-14-3	69	0	0	0	0	0	63	63	69	68	68	59	59	59	59	59	59	59	59	59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65	65	65	65	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KAT-P1-6	78	0	0	0	0	0	70	70	73	72	72	72	72	72	73	73	73	73	73	73	73	73	73	73	73	73	73	73	77	77	77	78	78	78	78	78	78	78	77	77	77	76	75	75	75	75	75	75	75	75	75	0	0	0	0	0	0	0	0	0	0
KAT-P1-5-A	75	0	0	0	0	0	69	69	75	74	74	65	65	65	65	65	65	65	65	65	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	71	71	71	71	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KAT-P1-5-B	90	0	0	0	0	0	84	84	90	88	89	80	80	80	80	80	80	80	80	80	70	70	70	70	70	70	70	70	74	74	74	75	75	75	75	75	75	75	74	74	74	73	86	86	86	86	71	71	71	71	71	0	0	0	0	0	0	0	0	0	0
KAT-P1-5-C	76	0	0	0	0	0	71	71	76	75	75	70	70	70	72	72	72	72	72	72	70	70	70	70	70	70	70	70	75	75	75	75	75	75	75	75	75	75	75	75	74	74	74	74	74	74	72	72	72	72	72	0	0	0	0	0	0	0	0	0	0
KAT-P1-5-D	81	0	0	0	0	0	75	75	81	79	80	71	71	71	71	71	71	71	71	71	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	76	76	76	76	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0