

Construction Programme	2014				2015				2016				2017				2018			
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Advanced Works	No. of group of PMEs																			
Activity 1 - Aviation Fuel Pipeline Diversion							1	1	1	1	1									
Activity 2 - Power Cable Diversion							1	1	1	1										
Land Formation Construction Activities	No. of group of PMEs																			
Activity 3 - Sand Blanket Laying								7	2	2	2	2	1	2	2	1				
Activity 4 - Steel Cell										1	1	1								
Activity 5a - Ground Treatment by DCM Barge									2	2	2	2	2	1	2	2	2	2	3	
Activity 5b - Ground Treatment by PVD Barge									2	2	2	2	2	2	1	2	2			
Activity 5c - Ground Treatment by Stone Column (Water Based)									2	1	2	2	2	1	1					
Activity 5d - Ground Treatment by Stone Column (Land Based)													2	2	2					
Activity 5e - Ground Treatment by Sand Drains Barge									1	1	2	2	2	1	1	2	2			
Activity 6 - Seawall Construction										2	2	2	2	2	2	2	2	2		
Activity 7 - Marine Sand Filling											1	2	2	2	2	2	2	2	3	1
Activity 8a - Filling Above Water (Public Fill)													2	2	2	2	2	2	5	6
Activity 8b - Filling Above Water (Sand Fill)												2	2	2	2	2	2	1	1	1
Activity 8c - Compaction													2	2	2	2	2	2	6	12
Activity 9a - Placement of Surcharge														2	2	2	2	2	6	6
Activity 9b - Removal of Surcharge															1	1	2	6	6	26
Construction Programme	2019				2020				2021				2022				2023			
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Land Formation Construction Activities	No. of group of PME																			
Activity 3 - Sand Blanket Laying										2	2									
Activity 4 - Steel Cell																				
Activity 5a - Ground Treatment by DCM Barge										1	1									
Activity 5b - Ground Treatment by PVD Barge											1									
Activity 5c - Ground Treatment by Stone Column (Water Based)																				
Activity 5d - Ground Treatment by Stone Column (Land Based)																				
Activity 5e - Ground Treatment by Sand Drains Barge										1	1									
Activity 6 - Seawall Construction										1	1									
Activity 7 - Marine Sand Filling											2	2								
Activity 8a - Filling Above Water (Public Fill)		3										1	1							
Activity 8b - Filling Above Water (Sand Fill)													1	1						
Activity 8c - Compaction		16											1	1						
Activity 9a - Placement of Surcharge		8	8	3							2	2	2	2						
Activity 9b - Removal of Surcharge		3	11	23	8	8	5	6	1						1					

Construction Programme	2014				2015				2016				2017				2018			
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Terminal 2 & Roadworks Construction Activities	No. of group of PMEs																			
Activity 1 - Advance Works for T2 Expansion									1	1	1	1	1	1	1	1	1	1	1	1
Activity 2 - Piling and D-wall															1	1	1	1		
Activity 3 - AIS / BHS Sub-Structure																	1	1	1	
Activity 4 - Superstructure																	1	1	1	
Activity 5 - Existing Structural Modification																				
Activity 6 - ABWF & E&M Works																				
Activity 7 - At-Grade & Elevated Road Works													1	1	1	1	1	1	1	1
Roadworks at South Cargo Area Construction Activities	No. of group of PMEs																			
Activity 1 - Viaduct Roads													1	1	1	1	1	1	1	1
Activity 2 - At-grade Roads													1	1	1	1	1	1		
Construction of Intermodal Transfer Terminal (Concurrent Project)	No. of group of PMEs																			
Activity 1 - Advance Works			1	1																
Activity 1a - Roadworks			1	1	1	1	1													
Activity 1b - BHS				1	1	1	1	1	1	1										
Activity 1c - APM				1	1	1	1													
Activity 2 - Main works					1	1	1													
Activity 2a - Bonded Road									1	1	1	1	1							
Activity 2b - BRH & coach hall						1	1	1	1	1	1	1	1	1	1					
Activity 2c - Skypier (A&A works)								1	1	1	1	1	1							
Activity 2d - APM tunnel							1	1	1	1										
Construction of Other Airport Facilities Related Works (Concurrent Project)	No. of group of PMEs																			
Activity 1 - Site Formation									1	1										
Activity 2 - Foundation & building works											1	1	1	1	1	1	1	1	1	1
Construction Programme	2019				2020				2021				2022				2023			
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Terminal 2 & Roadworks Construction Activities	No. of group of PME																			
Activity 1 - Advance Works for T2 Expansion	1	1																		
Activity 2 - Piling and D-wall																				
Activity 3 - AIS / BHS Sub-Structure	1	1	1	1	1	1														
Activity 4 - Superstructure	1	1	1	1	1	1	1	1	1	1										
Activity 5 - Existing Structural Modification		1	1	1	1	1	1	1	1	1	1	1	1	1	1					
Activity 6 - ABWF & E&M Works		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1				
Activity 7 - At-Grade & Elevated Road Works	1	1	1	1	1	1	1	1	1	1	1	1	1	1						
Roadworks at South Cargo Area Construction Activities	No. of group of PMEs																			
Activity 1 - Viaduct Roads	1	1	1																	
Activity 2 - At-grade Roads																				
Construction of Other Airport Facilities Related Works (Concurrent Project)	No. of group of PMEs																			
Activity 1 - Site Formation																				
Activity 2 - Foundation & building works	1	1	1	1																

Construction Programme	2014				2015				2016				2017				2018			
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Infrastructure - New Land & Existing Runway	No. of group of PMEs																			
Activity 1 - Site Grading & General Excavation																	1	1	1	1
Activity 2 - General Site Work (Including Utility & Drainage Systems)																	1	1	1	1
Activity 3a - Airfield Paving Flexible																				
Activity 3b - Airfield Paving Rigid																				
Activity 4 - APM & BHS Tunnel Construction																				
Activity 5 - Vehicular Tunnel Construction																			1	1
Activity 6a - Terminal Building Foundations & Basement																				
Activity 6b - Terminal Building Structure (Concrete)																				
Activity 6c - Cladding and Roof																				
Activity 7 - Ancillary Support Area Building Construction																	1	1	1	
Activity 8 - Fit out																				
Activity 9 - Roads																			1	
Activity 10 - Airfield Planing																				
Infrastructure - Midfied Modification	No. of group of PMEs																			
Activity 2 - General Site Work (Including Utility & Drainage Systems)													1							
Activity 5 - Vehicular Tunnel Construction													1	1	1	1	1	1	1	1
Infrastructure - APM/BHS Systems	No. of group of PMEs																			
Activity 4 - APM & BHS Tunnel Construction														1	1		1	1	1	1
Activity 6a - Terminal Building Foundations & Basement													1	1	1	1	1	1	1	1
Activity 11 - APM Depot																	1	1	1	1
Construction of North Commercial District (Concurrent Project)	No. of group of PMEs																			
Activity 1 - Site Formation for Phase 1							1	1												
Activity 2 - Roadworks							1		1	1	1	1	1	1	1	1				
Activity 3 - Foundation & building works for Phase 1							1	1	1	1	1	1	1	1	1	1				
Activity 4 - Site Formation for Phase 2																	1	1		
Activity 5 - Foundation & building works for Phase 2																1	1	1	1	1
Construction Programme	2019				2020				2021				2022				2023			
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Infrastructure - New Land & Existing Runway	No. of group of PME																			
Activity 1 - Site Grading & General Excavation	1	1	1	1	1			1			1			1	1					
Activity 2 - General Site Work (Including Utility & Drainage Systems)	1	1	1	1	1	1	1	1	1	1	1			1	1					
Activity 3a - Airfield Paving Flexible	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			1	
Activity 3b - Airfield Paving Rigid									1	1	1	1	1	1	1	1				
Activity 4 - APM & BHS Tunnel Construction	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1				
Activity 5 - Vehicular Tunnel Construction	1				1	1	1	1	1	1	1	1	1	1	1	1				
Activity 6a - Terminal Building Foundations & Basement					1	1	1	1	1											
Activity 6b - Terminal Building Structure (Concrete)									1	1	1	1	1	1						
Activity 6c - Cladding and Roof														1	1	1				
Activity 7 - Ancillary Support Area Building Construction	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1				
Activity 8 - Fit out		1	1	1	1	1	1								1	1	1			
Activity 9 - Roads	1	1	1	1	1	1	1								1	1				
Activity 10 - Airfield Planing											1	1								
Infrastructure - Midfied Modification	No. of group of PMEs																			
Activity 5 - Vehicular Tunnel Construction	1	1	1	1					1	1	1		1	1	1	1				
Infrastructure - APM/BHS Systems	No. of group of PMEs																			
Activity 4 - APM & BHS Tunnel Construction	1	1	1	1	1	1														
Activity 9 - Roads					1															
Activity 11 - APM Depot	1	1	1	1	1	1	1													
Construction of North Commercial District (Concurrent Project)	No. of group of PMEs																			
Activity 5 - Foundation & building works for Phase 2	1	1	1	1																

PME	TM or other reference	SWL, dB(A)	No. of PME per group	% on time	Total SWL, dB(A)
Advanced Works					
Activity 1 - Aviation Fuel Pipeline Diversion					
Drill rig, rotary type (diesel)	[1]	110	2	70%	111
Piling, diaphragm wall, bentonite filtering plant	CNP 162	105	2	100%	108
Welding plant	[2]	78	5	70%	83
Tug boat	CNP 221	110	3	80%	114
Derrick barge	CNP 061	104	2	80%	106
Total SWL, dB (A)					117
Activity 2 - Power Cable Diversion					
Drill rig, rotary type (diesel)	[1]	110	2	70%	111
Piling, diaphragm wall, bentonite filtering plant	CNP 162	105	2	100%	108
Welding plant	[2]	78	5	70%	83
Tug boat	CNP 221	110	3	80%	114
Derrick barge	CNP 061	104	2	80%	106
Total SWL, dB (A)					117
Land Formation Construction Activities					
Activity 3 - Sand Blanket Laying					
Dredger, suction	[1]	103	1	80%	102
Water pump (electric)	CNP 281	88	1	100%	88
Derrick barge	CNP 061	104	1	80%	103
Total SWL, dB (A)					106
Activity 4 - Steel Cell					
Steel Cell Barge	CNP 061	104	1	80%	103
Tug boat	CNP 221	110	2	80%	112
Derrick barge	CNP 061	104	1	80%	103
Total SWL, dB (A)					113
Activity 5a - Ground Treatment by DCM Barge					
Dredger, grab	CNP 063	112	1	80%	111
Tug boat	CNP 221	110	2	80%	112
Derrick barge	CNP 061	104	1	80%	103
Water pump (electric)	CNP 281	88	1	100%	88
Total SWL, dB (A)					115
Activity 5b - Ground Treatment by PVD Barge					
Dredger, grab	CNP 063	112	1	80%	111
Tug boat	CNP 221	110	1	80%	109
Total SWL, dB (A)					113
Activity 5c - Ground Treatment by Stone Column (Water Based)					
Stone Column Barge	CNP 063	112	1	80%	111
Tug boat	CNP 221	110	2	80%	112
Dredger, grab	CNP 063	112	1	80%	111
Total SWL, dB (A)					116
Activity 5d - Ground Treatment by Stone Column (Land Based)					
Drill rig, rotary type (diesel)	[1]	110	1	50%	107
Generator, standard	CNP 101	108	1	80%	107
Dredger, grab	CNP 063	112	1	80%	111
Crane, mobile/ barge mounted (diesel)	CNP 048	112	1	80%	111
Total SWL, dB (A)					115
Activity 5e - Ground Treatment by Sand Drains Barge					
Stone Drain Barge	CNP 063	112	1	80%	111
Tug boat	CNP 221	110	2	80%	112
Dredger, grab	CNP 063	112	1	80%	111
Total SWL, dB (A)					116
Activity 6 - Seawall Construction					
Derrick lighter	CNP 061	104	1	80%	103
Derrick barge (delivery of rock)	CNP 061	104	1	80%	103
Derrick barge (delivery of precast unit)	CNP 061	104	1	80%	103
Tug boat	CNP 221	110	1	80%	109
Total SWL, dB (A)					111
Activity 7 - Marine Sand Filling					
Dredger, suction	[1]	103	1	80%	102
Water pump (electric)	CNP 281	88	1	100%	88
Derrick barge	CNP 061	104	1	80%	103
Total SWL, dB (A)					106
Activity 8a - Filling Above Water (Public Fill)					
Derrick barge	CNP 061	104	1	80%	103
Conveyor belt	CNP 041	90	1	80%	89
Dump truck	CNP 067	117	3	50%	119
Bulldozer	CNP 030	115	1	80%	114
Roller, vibratory	CNP 186	108	1	80%	107
Total SWL, dB (A)					120
Activity 8b - Filling Above Water (Sand Fill)					
Dredger, suction	[1]	103	1	80%	102
Water pump (electric)	CNP 281	88	1	100%	88
Derrick barge	CNP 061	104	1	80%	103
Dump truck	CNP 067	117	5	50%	121
Bulldozer	CNP 030	115	1	80%	114
Total SWL, dB (A)					122

PME	TM or other reference	SWL, dB(A)	No. of PME per group	% on time	Total SWL, dB(A)
Activity 8c - Compaction					
Compactor, vibratory	CNP 050	105	1	80%	104
Generator, standard	CNP 101	108	1	100%	108
Crane, mobile/ barge mounted (diesel)	CNP 048	112	1	80%	111
Total SWL, dB (A)					113
Activity 9a - Placement of Surcharge					
Derrick barge	CNP 061	104	1	80%	103
Conveyor belt	CNP 041	90	1	80%	89
Dump truck	CNP 067	117	2	50%	117
Bulldozer	CNP 030	115	1	80%	114
Total SWL, dB (A)					119
Activity 9b - Removal of Surcharge					
Derrick barge	CNP 061	104	1	80%	103
Conveyor belt	CNP 041	90	1	80%	89
Dump truck	CNP 067	117	2	50%	117
Excavator/ loader, wheeled/ tracked	CNP 081	112	3	80%	116
Total SWL, dB (A)					120
Construction of Extension of South Perimeter Road					
Activity - Roadworks					
Air compressor, air flow > 10m ³ /min and ≤ 30m ³ /min	CNP 002	102	2	100%	105
Asphalt paver	CNP 004	109	1	80%	108
Breaker, hand-held, mass > 10kg and < 20kg	CNP 024	108	2	50%	108
Breaker, excavator mounted (hydraulic)	CNP 028	122	2	80%	124
Ballast tamper, hand-held (electric)	CNP 029	105	2	50%	105
Bulldozer	CNP 030	115	1	50%	112
Concrete lorry mixer	CNP 044	109	2	50%	109
Crane, mobile/ barge mounted (diesel)	CNP 048	112	2	80%	114
Compactor, vibratory	CNP 050	105	2	50%	105
Drill rig, rotary type (diesel)	[1]	110	1	50%	107
Excavator/ loader, wheeled/ tracked	CNP 081	112	2	80%	114
Generator, silenced, 75 dB(A) at 7 m	CNP 102	100	2	70%	101
Grader	CNP 104	113	1	50%	110
Lorry, with crane/grab, 5.5 tonne < gross vehicle weight ≤ 38 tonne	[1]	105	2	50%	105
Piling, large diameter bored, reverse circulation drill	CNP 166	100	2	50%	100
Poker, vibratory, hand-held	CNP 170	113	2	50%	113
Road roller	CNP 185	108	2	50%	108
Roller, vibratory	CNP 186	108	2	50%	108
Water pump, submersible (electric)	CNP 283	85	2	100%	88
Dump truck	CNP 067	117	2	50%	117
Total SWL, dB (A)					127

Note: [1] Extracted from EPD document namely, "Sound Power Levels of Other Commonly Used PME"

http://www.epd.gov.hk/epd/english/application_for_licences/guidance/files/OtherSWLe.pdf

[2] SWL is referred to the Appendix 5.1 of approved EIA Report of Hong Kong Section of Guangzhou - Shenzhen - Hong Kong Express Rail Link (AEIAR-143/2009).

PME	TM or other reference	SWL, dB(A)	No. of PME per group	% on time	Total SWL, dB(A)
Terminal 2 & Roadworks Construction Activities					
Activity 1 - Advance Works for T2 Expansion					
Air compressor, air flow > 10m ³ /min and ≤ 30m ³ /min	CNP 002	102	1	100%	102
Breaker, hand-held, mass > 10kg and < 20kg	CNP 024	108	2	50%	108
Concrete lorry mixer	CNP 044	109	2	50%	109
Crane, mobile/ barge mounted (diesel)	CNP 048	112	1	80%	111
Dump truck	CNP 067	117	2	50%	117
Drill rig, rotary type (diesel)	[1]	110	1	50%	107
Excavator/ loader, wheeled/ tracked	CNP 081	112	1	80%	111
Generator, silenced, 75 dB(A) at 7 m	CNP 102	100	1	69%	98
Lorry, with crane/grab, 5.5 tonne < gross vehicle weight ≤ 38 tonne	[1]	105	2	50%	105
Piling, large diameter bored, reverse circulation drill	CNP 166	100	2	50%	100
Poker, vibratory, hand-held	CNP 170	113	1	50%	110
Water pump, submersible (electric)	CNP 283	85	1	100%	85
Total SWL, dB (A)					120
Activity 2 - Piling and D-wall					
Air compressor, air flow > 10m ³ /min and ≤ 30m ³ /min	CNP 002	102	2	100%	105
Bar bender and cutter (electric)	CNP 021	90	2	100%	93
Concrete lorry mixer	CNP 044	109	2	50%	109
Concrete pump, stationary/ lorry mounted	CNP 047	109	2	50%	109
Crane, mobile/ barge mounted (diesel)	CNP 048	112	2	80%	114
Dump truck	CNP 067	117	2	50%	117
Generator, silenced, 75 dB(A) at 7 m	CNP 102	100	2	70%	101
Welding plant	[2]	78	2	80%	80
Piling, diaphragm wall, bentonite filtering plant	CNP 162	105	2	100%	108
Piling, diaphragm wall, hydraulic extractor	CNP 163	90	2	100%	93
Piling, large diameter bored, reverse circulation drill	CNP 166	100	2	70%	101
Water pump, submersible (electric)	CNP 283	85	2	100%	88
Total SWL, dB (A)					120
Activity 3 - AIS / BHS Sub-Structure					
Air compressor, air flow > 10m ³ /min and ≤ 30m ³ /min	CNP 002	102	2	100%	105
Breaker, hand-held, mass ≥ 20kg and ≤ 35kg	CNP 025	111	2	50%	111
Concrete lorry mixer	CNP 044	109	2	50%	109
Crane, mobile/ barge mounted (diesel)	CNP 048	112	2	50%	112
Concrete burster	[1]	90	2	80%	92
Dump truck	CNP 067	117	2	50%	117
Dump truck, with grab, 5.5 tonne < gross vehicle weight ≤ 38 tonne	[1]	105	2	50%	105
Drill rig, rotary type (diesel)	[1]	110	2	50%	110
Excavator/ loader, wheeled/ tracked	CNP 081	112	2	70%	113
Excavator, mini-robot mounted	[1]	94	2	50%	94
Generator, silenced, 75 dB(A) at 7 m	CNP 102	100	2	50%	100
Grout mixer	[1]	90	2	50%	90
Grout pump	[1]	105	2	50%	105
Lorry, with crane/grab, 5.5 tonne < gross vehicle weight ≤ 38 tonne	[1]	105	2	50%	105
Piling, large diameter bored, reverse circulation drill	CNP 166	100	2	70%	101
Poker, vibratory, hand-held	CNP 170	113	2	50%	113
Water pump (electric)	CNP 281	88	2	50%	88
Total SWL, dB (A)					122
Activity 4 - Superstructure					
Air compressor, air flow > 10m ³ /min and ≤ 30m ³ /min	CNP 002	102	2	100%	105
Chipper, hand-held (pneumatic)	CNP 043	112	2	50%	112
Concrete lorry mixer	CNP 044	109	2	50%	109
Concrete pump, stationary/ lorry mounted	CNP 047	109	2	50%	109
Crane, mobile/ barge mounted (diesel)	CNP 048	112	2	80%	114
Generator, silenced, 75 dB(A) at 7 m	CNP 102	100	2	100%	103
Poker, vibratory, hand-held	CNP 170	113	2	50%	113
Saw, circular, wood	CNP 201	108	2	100%	111
Total SWL, dB (A)					120
Activity 5 - Existing Structural Modification					
Air compressor, air flow > 10m ³ /min and ≤ 30m ³ /min	CNP 002	102	2	100%	105
Chipper, hand-held (pneumatic)	CNP 043	112	2	50%	112
Concrete lorry mixer	CNP 044	109	2	50%	109
Concrete pump, stationary/ lorry mounted	CNP 047	109	1	50%	106
Generator, silenced, 75 dB(A) at 7 m	CNP 102	100	1	100%	100
Poker, vibratory, hand-held	CNP 170	113	2	50%	113
Saw, circular, wood	CNP 201	108	2	100%	111
Total SWL, dB (A)					118

PME	TM or other reference	SWL, dB(A)	No. of PME per group	% on time	Total SWL, dB(A)
Activity 6 - ABWF & E&M Works					
Crane, mobile/ barge mounted (diesel)	CNP 048	112	2	80%	114
Drill/grinder, hand-held (electric)	CNP 065	98	2	50%	98
Dump truck, with grab, 5.5 tonne < gross vehicle weight ≤ 38 tonne	[1]	105	2	50%	105
Hoist, passenger/ material (electric)	CNP 122	95	2	100%	98
Lorry	CNP 141	112	2	50%	112
Power pack for hand-held items of PME	CNP 168	100	2	50%	100
Total SWL, dB (A)					117
Activity 7 - At-Grade & Elevated Road Works					
Air compressor, air flow > 10m ³ /min and ≤ 30m ³ /min	CNP 002	102	2	100%	105
Breaker, hand-held, mass > 10kg and < 20kg	CNP 024	108	2	50%	108
Concrete lorry mixer	CNP 044	109	2	50%	109
Concrete pump, stationary/ lorry mounted	CNP 047	109	1	50%	106
Crane, mobile/ barge mounted (diesel)	CNP 048	112	2	80%	114
Dump truck	CNP 067	117	2	50%	117
Drill rig, rotary type (diesel)	[1]	110	2	50%	110
Excavator/ loader, wheeled/ tracked	CNP 081	112	2	80%	114
Generator, silenced, 75 dB(A) at 7 m	CNP 102	100	2	69%	101
Welding plant	[2]	78	2	70%	79
Lorry, with crane/grab, 5.5 tonne < gross vehicle weight ≤ 38 tonne	[1]	105	2	50%	105
Piling, large diameter bored, reverse circulation drill	CNP 166	100	2	50%	100
Poker, vibratory, hand-held	CNP 170	113	2	50%	113
Water pump, submersible (electric)	CNP 283	85	2	100%	88
Total SWL, dB (A)					122
Roadworks at South Cargo Area Construction Activities					
Activity 1 - Viaduct Roads					
Air compressor, air flow > 10m ³ /min and ≤ 30m ³ /min	CNP 002	102	2	100%	105
Breaker, hand-held, mass > 10kg and < 20kg	CNP 024	108	1	50%	105
Ballast tamper, hand-held (electric)	CNP 029	105	1	50%	102
Compactor, vibratory	CNP 050	105	1	50%	102
Generator, silenced, 75 dB(A) at 7 m	CNP 102	100	1	70%	98
Welding plant	[2]	78	2	70%	79
Piling, large diameter bored, reverse circulation drill	CNP 166	100	1	50%	97
Road roller	CNP 185	108	1	50%	105
Water pump, submersible (electric)	CNP 283	85	2	50%	85
Total SWL, dB (A)					111
Activity 2 - At-grade Roads					
Air compressor, air flow > 10m ³ /min and ≤ 30m ³ /min	CNP 002	102	2	100%	105
Ballast tamper, hand-held (electric)	CNP 029	105	2	50%	105
Generator, silenced, 75 dB(A) at 7 m	CNP 102	100	2	70%	101
Lorry, with crane/grab, 5.5 tonne < gross vehicle weight ≤ 38 tonne	[1]	105	1	50%	102
Piling, large diameter bored, reverse circulation drill	CNP 166	100	2	50%	100
Road roller	CNP 185	108	2	50%	108
Water pump, submersible (electric)	CNP 283	85	2	100%	88
Total SWL, dB (A)					112

PME	TM or other reference	SWL, dB(A)	No. of PME per group	% on time	Total SWL, dB(A)
Construction of Intermodal Transfer Terminal (Concurrent Project)					
Activity 1 - Advance Works					
Air compressor, air flow > 10m ³ /min and ≤ 30m ³ /min	CNP 002	102	1	100%	102
Breaker, hand-held, mass ≥ 20kg and ≤ 35kg	CNP 025	111	1	50%	108
Concrete lorry mixer	CNP 044	109	1	50%	106
Crane, mobile/ barge mounted (diesel)	CNP 048	112	1	60%	110
Dump truck	CNP 067	117	2	50%	117
Excavator/ loader, wheeled/ tracked	CNP 081	112	1	100%	112
Generator, silenced, 75 dB(A) at 7 m	CNP 102	100	1	100%	100
Lorry, with crane/grab, 5.5 tonne < gross vehicle weight ≤ 38 tonne	[1]	105	1	70%	103
Poker, vibratory, hand-held	CNP 170	113	1	50%	110
Total SWL, dB (A)					120
Activity 1a - Roadworks					
Air compressor, air flow > 10m ³ /min and ≤ 30m ³ /min	CNP 002	102	2	100%	105
Asphalt paver	CNP 004	109	1	80%	108
Breaker, hand-held, mass > 10kg and < 20kg	CNP 024	108	2	50%	108
Conveyor belt	CNP 041	90	2	80%	92
Concrete pump, stationary/ lorry mounted	CNP 047	109	2	80%	111
Crane, tower (electric)	CNP 049	95	2	80%	97
Generator, standard	CNP 101	108	2	80%	110
Crane, mobile/ barge mounted (diesel)	CNP 048	112	2	80%	114
Compactor, vibratory	CNP 050	105	1	50%	102
Dump truck	CNP 067	117	2	50%	117
Drill rig, rotary type (diesel)	[1]	110	1	50%	107
Excavator/ loader, wheeled/ tracked	CNP 081	112	2	80%	114
Generator, silenced, 75 dB(A) at 7 m	CNP 102	100	2	70%	101
Grader	CNP 104	113	1	50%	110
Lorry, with crane/grab, 5.5 tonne < gross vehicle weight ≤ 38 tonne	[1]	105	2	50%	105
Poker, vibratory, hand-held	CNP 170	113	2	50%	113
Road roller	CNP 185	108	2	50%	108
Roller, vibratory	CNP 186	108	1	50%	105
Water pump, submersible (electric)	CNP 283	85	2	100%	88
Total SWL, dB (A)					123
Activity 1b - BHS					
Air compressor, air flow > 10m ³ /min and ≤ 30m ³ /min	CNP 002	102	2	100%	105
Breaker, hand-held, mass > 10kg and < 20kg	CNP 024	108	2	50%	108
Breaker, excavator mounted (hydraulic)	CNP 028	122	2	50%	122
Crane, mobile/ barge mounted (diesel)	CNP 048	112	1	80%	111
Dump truck	CNP 067	117	2	50%	117
Welding plant	[2]	78	1	70%	76
Piling, large diameter bored, reverse circulation drill	CNP 166	100	2	70%	101
Water pump, submersible (electric)	CNP 283	85	1	100%	85
Total SWL, dB (A)					124
Activity 1c - APM					
Air compressor, air flow > 10m ³ /min and ≤ 30m ³ /min	CNP 002	102	2	100%	105
Breaker, excavator mounted (pneumatic)	CNP 027	122	2	50%	122
Chipper, hand-held (pneumatic)	CNP 043	112	1	50%	109
Concrete lorry mixer	CNP 044	109	2	50%	109
Concrete pump, stationary/ lorry mounted	CNP 047	109	1	50%	106
Crane, mobile/ barge mounted (diesel)	CNP 048	112	2	50%	112
Crane, tower (electric)	CNP 049	95	1	100%	95
Concrete burster	[1]	90	1	80%	89
Dump truck	CNP 067	117	2	50%	117
Dump truck, with grab, 5.5 tonne < gross vehicle weight ≤ 38 tonne	[1]	105	1	50%	102
Excavator/ loader, wheeled/ tracked	CNP 081	112	2	50%	112
Generator, silenced, 75 dB(A) at 7 m	CNP 102	100	2	100%	103
Hoist, passenger/ material (electric)	CNP 122	95	1	100%	95
Lorry	CNP 141	112	1	50%	109
Poker, vibratory, hand-held	CNP 170	113	2	50%	113
Rock drill, crawler mounted (hydraulic)	CNP 182	123	1	80%	122
Saw, circular, wood	CNP 201	108	1	100%	108
Ventilation fan	CNP 241	108	1	100%	108
Water pump (electric)	CNP 281	88	2	100%	91
Total SWL, dB (A)					127
Activity 2 - Main works					
Air compressor, air flow > 10m ³ /min and ≤ 30m ³ /min	CNP 002	102	2	100%	105
Breaker, hand-held, mass ≥ 20kg and ≤ 35kg	CNP 025	111	2	50%	111
Concrete lorry mixer	CNP 044	109	2	50%	109
Crane, mobile/ barge mounted (diesel)	CNP 048	112	1	60%	110
Dump truck	CNP 067	117	2	50%	117
Drill rig, rotary type (diesel)	[1]	110	1	70%	108
Excavator/ loader, wheeled/ tracked	CNP 081	112	2	100%	115
Generator, silenced, 75 dB(A) at 7 m	CNP 102	100	2	100%	103
Lorry	CNP 141	112	2	50%	112
Lorry, with crane/grab, 5.5 tonne < gross vehicle weight ≤ 38 tonne	[1]	105	1	70%	103
Poker, vibratory, hand-held	CNP 170	113	2	50%	113
Water pump (electric)	CNP 281	88	2	50%	88
Total SWL, dB (A)					122

PME	TM or other reference	SWL, dB(A)	No. of PME per group	% on time	Total SWL, dB(A)
Activity 2a - Bonded Road					
Air compressor, air flow > 10m ³ /min and ≤ 30m ³ /min	CNP 002	102	2	100%	105
Asphalt paver	CNP 004	109	1	80%	108
Breaker, hand-held, mass > 10kg and < 20kg	CNP 024	108	2	50%	108
Ballast tamper, hand-held (electric)	CNP 029	105	2	50%	105
Bulldozer	CNP 030	115	1	50%	112
Concrete lorry mixer	CNP 044	109	2	50%	109
Crane, mobile/ barge mounted (diesel)	CNP 048	112	2	80%	114
Compactor, vibratory	CNP 050	105	2	50%	105
Dump truck	CNP 067	117	2	50%	117
Drill rig, rotary type (diesel)	[1]	110	1	50%	107
Excavator/ loader, wheeled/ tracked	CNP 081	112	2	80%	114
Generator, silenced, 75 dB(A) at 7 m	CNP 102	100	2	69%	101
Grader	CNP 104	113	1	50%	110
Lorry, with crane/grab, 5.5 tonne < gross vehicle weight ≤ 38 tonne	[1]	105	2	50%	105
Piling, large diameter bored, reverse circulation drill	CNP 166	100	2	50%	100
Poker, vibratory, hand-held	CNP 170	113	2	50%	113
Road roller	CNP 185	108	1	50%	105
Roller, vibratory	CNP 186	108	1	50%	105
Water pump, submersible (electric)	CNP 283	85	2	100%	88
Total SWL, dB (A)					123
Activity 2b - BRH & coach hall					
Air compressor, air flow > 10m ³ /min and ≤ 30m ³ /min	CNP 002	102	2	100%	105
Bar bender and cutter (electric)	CNP 021	90	2	100%	93
Breaker, hand-held, mass > 10kg and < 20kg	CNP 024	108	2	50%	108
Chipper, hand-held (pneumatic)	CNP 043	112	2	50%	112
Concrete lorry mixer	CNP 044	109	2	50%	109
Concrete pump, stationary/ lorry mounted	CNP 047	109	2	100%	112
Crane, mobile/ barge mounted (diesel)	CNP 048	112	2	50%	112
Crane, tower (electric)	CNP 049	95	2	100%	98
Dump truck	CNP 067	117	2	50%	117
Dump truck, with grab, 5.5 tonne < gross vehicle weight ≤ 38 tonne	[1]	105	1	50%	102
Drill rig, rotary type (diesel)	[1]	110	1	50%	107
Excavator/ loader, wheeled/ tracked	CNP 081	112	2	70%	113
Excavator, mini-robot mounted	[1]	94	1	50%	91
Generator, silenced, 75 dB(A) at 7 m	CNP 102	100	2	50%	100
Grout mixer	[1]	90	1	50%	87
Grout pump	[1]	105	1	50%	102
Hoist, passenger/ material (electric)	CNP 122	95	1	100%	95
Lorry, with crane/grab, 5.5 tonne < gross vehicle weight ≤ 38 tonne	[1]	105	2	50%	105
Poker, vibratory, hand-held	CNP 170	113	2	50%	113
Saw, circular, wood	CNP 201	108	2	100%	111
Ventilation fan	CNP 241	108	2	100%	111
Water pump (electric)	CNP 281	88	2	50%	88
Total SWL, dB (A)					123
Activity 2c - Skypier (A&A works)					
Crane, mobile/ barge mounted (diesel)	CNP 048	112	2	80%	114
Drill/grinder, hand-held (electric)	CNP 065	98	2	50%	98
Dump truck, with grab, 5.5 tonne < gross vehicle weight ≤ 38 tonne	[1]	105	2	50%	105
Hoist, passenger/ material (electric)	CNP 122	95	2	100%	98
Lorry	CNP 141	112	2	50%	112
Power pack for hand-held items of PME	CNP 168	100	2	50%	100
Total SWL, dB (A)					117
Activity 2d - APM tunnel					
Crane, mobile/ barge mounted (diesel)	CNP 048	112	2	80%	114
Drill/grinder, hand-held (electric)	CNP 065	98	2	50%	98
Dump truck, with grab, 5.5 tonne < gross vehicle weight ≤ 38 tonne	[1]	105	2	50%	105
Hoist, passenger/ material (electric)	CNP 122	95	2	100%	98
Lorry	CNP 141	112	2	50%	112
Power pack for hand-held items of PME	CNP 168	100	2	50%	100
Total SWL, dB (A)					117

PME	TM or other reference	SWL, dB(A)	No. of PME per group	% on time	Total SWL, dB(A)
Construction of Other Airport Facilities Related Works (Concurrent Project)					
Activity 1 - Site Formation					
Air compressor, air flow > 10m ³ /min and ≤ 30m ³ /min	CNP 002	102	1	100%	102
Breaker, hand-held, mass ≥ 20kg and ≤ 35kg	CNP 025	111	1	50%	108
Concrete lorry mixer	CNP 044	109	1	50%	106
Crane, mobile/ barge mounted (diesel)	CNP 048	112	1	60%	110
Dump truck	CNP 067	117	2	50%	117
Excavator/ loader, wheeled/ tracked	CNP 081	112	1	100%	112
Generator, silenced, 75 dB(A) at 7 m	CNP 102	100	1	100%	100
Lorry, with crane/grab, gross vehicle weight > 38 tonne	[1]	112	1	70%	110
Poker, vibratory, hand-held	CNP 170	113	1	50%	110
Total SWL, dB (A)					120
Activity 2 - Foundation & building works					
Air compressor, air flow > 10m ³ /min and ≤ 30m ³ /min	CNP 002	102	2	100%	105
Bar bender and cutter (electric)	CNP 021	90	2	100%	93
Breaker, hand-held, mass ≥ 20kg and ≤ 35kg	CNP 025	111	2	50%	111
Chipper, hand-held (pneumatic)	CNP 043	112	2	50%	112
Concrete lorry mixer	CNP 044	109	2	50%	109
Concrete pump, stationary/ lorry mounted	CNP 047	109	2	100%	112
Crane, mobile/ barge mounted (diesel)	CNP 048	112	2	50%	112
Crane, tower (electric)	CNP 049	95	2	100%	98
Concrete burster	[1]	90	2	80%	92
Dump truck, with grab, 5.5 tonne < gross vehicle weight ≤ 38 tonne	[1]	105	2	50%	105
Excavator/ loader, wheeled/ tracked	CNP 081	112	2	50%	112
Generator, silenced, 75 dB(A) at 7 m	CNP 102	100	2	50%	100
Welding plant	[2]	78	2	70%	79
Grout mixer	[1]	90	2	50%	90
Grout pump	[1]	105	2	50%	105
Hoist, passenger/ material (electric)	CNP 122	95	2	100%	98
Lorry, with crane/grab, 5.5 tonne < gross vehicle weight ≤ 38 tonne	[1]	105	2	50%	105
Poker, vibratory, hand-held	CNP 170	113	2	50%	113
Saw, circular, wood	CNP 201	108	2	100%	111
Ventilation fan	CNP 241	108	2	100%	111
Water pump (electric)	CNP 281	88	2	50%	88
Water pump, submersible (electric)	CNP 283	85	2	100%	88
Total SWL, dB (A)					122

Note: [1] Extracted from EPD document namely, "Sound Power Levels of Other Commonly Used PME"

http://www.epd.gov.hk/epd/english/application_for_licences/guidance/files/OtherSWLe.pdf

[2] SWL is referred to the Appendix 5.1 of approved EIA Report of Hong Kong Section of Guangzhou - Shenzhen - Hong Kong Express Rail Link (AEIAR-143/2009).

PME	TM or other reference	SWL, dB(A)	No. of PME per group	% on time	Total SWL, dB(A)
Infrastructure Construction Activities					
Activity 1 - Site Grading & General Excavation					
Dump truck	CNP 067	117	2	50%	117
Road roller	CNP 185	108	2	80%	110
Derrick barge	CNP 061	104	2	80%	106
Roller, vibratory	CNP 186	108	2	80%	110
Excavator/ loader, wheeled/ tracked	CNP 081	112	2	80%	114
Total SWL, dB (A)					120
Activity 2 - General Site Work (Including Utility & Drainage Systems)					
Compactor, vibratory	CNP 050	105	2	80%	107
Lorry, with crane/grab, gross vehicle weight > 38 tonne	[1]	112	2	80%	114
Roller, vibratory	CNP 186	108	1	80%	107
Dump truck	CNP 067	117	2	50%	117
Lorry	CNP 141	112	2	80%	114
Generator, portable	[1]	100	2	80%	102
Light goods vehicle, gross vehicle weight ≤ 5.5 tonne	[1]	101	1	80%	100
Water pump (electric)	CNP 281	88	2	100%	91
Total SWL, dB (A)					121
Activity 3a - Airfield Paving Flexible					
Dump truck	CNP 067	117	1	50%	114
Lorry	CNP 141	112	2	80%	114
Asphalt paver	CNP 004	109	2	80%	111
Roller, vibratory	CNP 186	108	2	80%	110
Road sweeper	[1]	107	2	80%	109
Generator, portable	[1]	100	1	80%	99
Road roller	CNP 185	108	2	80%	110
Lorry	CNP 141	112	1	80%	111
Total SWL, dB (A)					120
Activity 3b - Airfield Paving Rigid					
Dump truck	CNP 067	117	1	50%	114
Concrete lorry mixer	CNP 044	109	2	80%	111
Concrete paver	CNP 004	109	1	80%	108
Road sweeper	[1]	107	2	80%	109
Generator, portable	[1]	100	1	80%	99
Saw/groover, concrete (petrol)	CNP 203	115	2	80%	117
Total SWL, dB (A)					120
Activity 4 - APM & BHS Tunnel Construction					
Dump truck	CNP 067	117	2	50%	117
Concrete pump, stationary/ lorry mounted	CNP 047	109	1	80%	108
Lorry, with crane/grab, gross vehicle weight > 38 tonne	[1]	112	1	80%	111
Generator, portable	[1]	100	2	80%	102
Water pump (electric)	CNP 281	88	2	100%	91
Total SWL, dB (A)					118
Activity 5 - Vehicular Tunnel Construction					
Dump truck	CNP 067	117	2	50%	117
Lorry	CNP 141	112	2	80%	114
Concrete pump, stationary/ lorry mounted	CNP 047	109	1	80%	108
Lorry, with crane/grab, gross vehicle weight > 38 tonne	[1]	112	1	80%	111
Generator, portable	[1]	100	2	100%	103
Water pump (electric)	CNP 281	88	2	100%	91
Total SWL, dB (A)					120

PME	TM or other reference	SWL, dB(A)	No. of PME per group	% on time	Total SWL, dB(A)
Activity 6a - Terminal Building Foundations & Basement					
Dump truck	CNP 067	117	2	50%	117
Lorry, with crane/grab, gross vehicle weight > 38 tonne	[1]	112	2	80%	114
Excavator/ loader, wheeled/ tracked	CNP 081	112	2	80%	114
Generator, portable	[1]	100	2	100%	103
Light goods vehicle, gross vehicle weight ≤ 5.5 tonne	[1]	101	2	80%	103
Crane, mobile/ barge mounted (diesel)	CNP 048	112	2	80%	114
Water pump (electric)	CNP 281	100	2	100%	103
Total SWL, dB (A)					121
Activity 6b - Terminal Building Structure (Concrete)					
Dump truck	CNP 067	117	2	50%	117
Derrick barge	CNP 061	104	2	80%	106
Compactor, vibratory	CNP 050	105	2	80%	107
Concrete pump, stationary/ lorry mounted	CNP 047	109	2	80%	111
Lorry, with crane/grab, gross vehicle weight > 38 tonne	[1]	112	2	80%	114
Lorry	CNP 141	112	2	80%	114
Generator, portable	[1]	100	2	100%	103
Light goods vehicle, gross vehicle weight ≤ 5.5 tonne	[1]	101	2	80%	103
Crane, mobile/ barge mounted (diesel)	CNP 048	112	2	80%	114
Hoist, passenger/ material (electric)	CNP 122	95	2	80%	97
Total SWL, dB (A)					122
Activity 6c - Cladding and Roof					
Compactor, vibratory	CNP 050	105	2	80%	107
Lorry, with crane/grab, gross vehicle weight > 38 tonne	[1]	112	2	80%	114
Lorry	CNP 141	112	2	80%	114
Generator, portable	[1]	100	2	80%	102
Hoist, passenger/ material (electric)	CNP 122	95	2	80%	97
Light goods vehicle, gross vehicle weight ≤ 5.5 tonne	[1]	101	2	80%	103
Crane, mobile/ barge mounted (diesel)	CNP 048	112	2	80%	114
Hoist, passenger/ material (electric)	CNP 122	95	2	80%	97
Total SWL, dB (A)					119
Activity 7 - Ancillary Support Area Building Construction					
Dump truck	CNP 067	117	2	50%	117
Compactor, vibratory	CNP 050	105	2	80%	107
Concrete lorry mixer	CNP 044	109	2	80%	111
Concrete pump, stationary/ lorry mounted	CNP 047	109	1	80%	108
Lorry, with crane/grab, gross vehicle weight > 38 tonne	[1]	112	2	80%	114
Lorry	CNP 141	112	2	80%	114
Generator, portable	[1]	100	2	100%	103
Hoist, passenger/ material (electric)	CNP 122	95	2	80%	97
Crane, mobile/ barge mounted (diesel)	CNP 048	112	2	80%	114
Total SWL, dB (A)					122
Activity 8 - Fit out					
Dump truck	CNP 067	117	2	80%	119
Compactor, vibratory	CNP 050	105	2	80%	107
Lorry	CNP 141	112	2	80%	114
Generator, portable	[1]	100	2	100%	103
Hoist, passenger/ material (electric)	CNP 122	95	2	80%	97
Light goods vehicle, gross vehicle weight ≤ 5.5 tonne	[1]	101	2	80%	103
Hoist, passenger/ material (electric)	CNP 122	95	2	80%	97
Total SWL, dB (A)					121
Activity 9 - Roads					
Compactor, vibratory	CNP 050	105	2	80%	107
Dump truck	CNP 067	117	2	50%	117
Lorry	CNP 141	112	2	80%	114
Generator, portable	[1]	100	2	100%	103
Road roller	CNP 185	108	1	80%	107
Lorry	CNP 141	112	1	80%	111
Total SWL, dB (A)					120
Activity 10 - Airfield Planing					
450E Backhoe / JCB	CNP 081	112	2	50%	112
Dump truck	CNP 067	117	1	80%	116
Road planer or miller	CNP 184	111	1	80%	110
Total SWL, dB (A)					118

PME	TM or other reference	SWL, dB(A)	No. of PME per group	% on time	Total SWL, dB(A)
Activity 11 - APM Depot					
Dump truck	CNP 067	117	2	50%	117
Lorry, with crane/grab, gross vehicle weight > 38 tonne	[1]	112	2	80%	114
Generator, portable	[1]	100	2	100%	103
Crane, mobile/ barge mounted (diesel)	CNP 048	112	2	80%	114
Water pump (electric)	CNP 281	88	2	80%	90
Hoist, passenger/ material (electric)	CNP 122	100	2	100%	103
Total SWL, dB (A)					120
Construction of North Commercial District (Concurrent Project)					
Activity 1 - Site Formation for Phase 1					
Air compressor, air flow > 10m ³ /min and ≤ 30m ³ /min	CNP 002	102	1	100%	102
Breaker, hand-held, mass ≥ 20kg and ≤ 35kg	CNP 025	111	1	50%	108
Concrete lorry mixer	CNP 044	109	1	50%	106
Crane, mobile/ barge mounted (diesel)	CNP 048	112	1	60%	110
Dump truck	CNP 067	117	2	50%	117
Excavator/ loader, wheeled/ tracked	CNP 081	112	1	100%	112
Generator, silenced, 75 dB(A) at 7 m	CNP 102	100	1	100%	100
Lorry, with crane/grab, gross vehicle weight > 38 tonne	[1]	112	1	70%	110
Poker, vibratory, hand-held	CNP 170	113	1	50%	110
Total SWL, dB (A)					120
Activity 2 - Roadworks					
Air compressor, air flow > 10m ³ /min and ≤ 30m ³ /min	CNP 002	102	2	100%	105
Asphalt paver	CNP 004	109	1	80%	108
Breaker, hand-held, mass > 10kg and < 20kg	CNP 024	108	2	50%	108
Ballast tamper, hand-held (electric)	CNP 029	105	1	40%	101
Bulldozer	CNP 030	115	1	50%	112
Concrete lorry mixer	CNP 044	109	2	50%	109
Crane, mobile/ barge mounted (diesel)	CNP 048	112	2	80%	114
Compactor, vibratory	CNP 050	105	1	50%	102
Dump truck	CNP 067	117	2	50%	117
Drill rig, rotary type (diesel)	[1]	110	1	50%	107
Excavator/ loader, wheeled/ tracked	CNP 081	112	2	80%	114
Generator, silenced, 75 dB(A) at 7 m	CNP 102	100	2	69%	101
Grader	CNP 104	113	1	50%	110
Lorry, with crane/grab, 5.5 tonne < gross vehicle weight ≤ 38 tonne	[1]	105	2	50%	105
Poker, vibratory, hand-held	CNP 170	113	2	50%	113
Road roller	CNP 185	108	2	50%	108
Roller, vibratory	CNP 186	108	1	50%	105
Water pump, submersible (electric)	CNP 283	85	2	100%	88
Total SWL, dB (A)					123
Activity 3 - Foundation & building works for Phase 1					
Air compressor, air flow > 10m ³ /min and ≤ 30m ³ /min	CNP 002	102	2	100%	105
Bar bender and cutter (electric)	CNP 021	90	2	100%	93
Breaker, hand-held, mass ≥ 20kg and ≤ 35kg	CNP 025	111	2	50%	111
Chipper, hand-held (pneumatic)	CNP 043	112	2	50%	112
Concrete pump, stationary/ lorry mounted	CNP 047	109	2	100%	112
Crane, mobile/ barge mounted (diesel)	CNP 048	112	2	50%	112
Crane, tower (electric)	CNP 049	95	2	100%	98
Concrete burster	[1]	90	2	80%	92
Dump truck	CNP 067	117	2	50%	117
Dump truck, with grab, 5.5 tonne < gross vehicle weight ≤ 38 tonne	[1]	105	2	50%	105
Excavator/ loader, wheeled/ tracked	CNP 081	112	2	50%	112
Generator, silenced, 75 dB(A) at 7 m	CNP 102	100	2	50%	100
Welding plant	[2]	78	2	70%	79
Grout mixer	[1]	90	2	50%	90
Grout pump	[1]	105	2	50%	105
Hoist, passenger/ material (electric)	CNP 122	95	2	100%	98
Lorry	CNP 141	112	2	50%	112
Lorry, with crane/grab, 5.5 tonne < gross vehicle weight ≤ 38 tonne	[1]	105	2	50%	105
Poker, vibratory, hand-held	CNP 170	113	2	50%	113
Saw, circular, wood	CNP 201	108	2	100%	111
Ventilation fan	CNP 241	108	2	100%	111
Water pump (electric)	CNP 281	88	2	50%	88
Water pump, submersible (electric)	CNP 283	85	2	100%	88
Total SWL, dB (A)					123

PME	TM or other reference	SWL, dB(A)	No. of PME per group	% on time	Total SWL, dB(A)
Activity 4 - Site Formation for Phase 2					
Air compressor, air flow > 10m ³ /min and ≤ 30m ³ /min	CNP 002	102	1	100%	102
Breaker, hand-held, mass ≥ 20kg and ≤ 35kg	CNP 025	111	1	50%	108
Concrete lorry mixer	CNP 044	109	1	50%	106
Crane, mobile/ barge mounted (diesel)	CNP 048	112	1	60%	110
Dump truck	CNP 067	117	2	50%	117
Excavator/ loader, wheeled/ tracked	CNP 081	112	1	100%	112
Generator, silenced, 75 dB(A) at 7 m	CNP 102	100	1	100%	100
Lorry, with crane/grab, 5.5 tonne < gross vehicle weight ≤ 38 tonne	[1]	105	1	70%	103
Poker, vibratory, hand-held	CNP 170	113	1	50%	110
Total SWL, dB (A)					120
Activity 5 - Foundation & building works for Phase 2					
Air compressor, air flow > 10m ³ /min and ≤ 30m ³ /min	CNP 002	102	2	100%	105
Bar bender and cutter (electric)	CNP 021	90	2	100%	93
Breaker, hand-held, mass ≥ 20kg and ≤ 35kg	CNP 025	111	2	50%	111
Chipper, hand-held (pneumatic)	CNP 043	112	2	50%	112
Concrete pump, stationary/ lorry mounted	CNP 047	109	2	100%	112
Crane, mobile/ barge mounted (diesel)	CNP 048	112	2	50%	112
Crane, tower (electric)	CNP 049	95	2	100%	98
Concrete burster	[1]	90	2	80%	92
Dump truck	CNP 067	117	2	50%	117
Dump truck, with grab, 5.5 tonne < gross vehicle weight ≤ 38 tonne	[1]	105	2	50%	105
Excavator/ loader, wheeled/ tracked	CNP 081	112	2	50%	112
Generator, silenced, 75 dB(A) at 7 m	CNP 102	100	2	50%	100
Welding plant	[2]	78	2	70%	79
Grout mixer	[1]	90	2	50%	90
Grout pump	[1]	105	2	50%	105
Hoist, passenger/ material (electric)	CNP 122	95	2	100%	98
Lorry	CNP 141	112	2	50%	112
Lorry, with crane/grab, 5.5 tonne < gross vehicle weight ≤ 38 tonne	[1]	105	2	50%	105
Poker, vibratory, hand-held	CNP 170	113	2	50%	113
Saw, circular, wood	CNP 201	108	2	100%	111
Ventilation fan	CNP 241	108	2	100%	111
Water pump (electric)	CNP 281	88	2	50%	88
Water pump, submersible (electric)	CNP 283	85	2	100%	88
Total SWL, dB (A)					123

Note: [1] Extracted from EPD document namely, "Sound Power Levels of Other Commonly Used PME"

http://www.epd.gov.hk/epd/english/application_for_licences/guidance/files/OtherSWLe.pdf

[2] SWL is referred to the Appendix 5.1 of approved EIA Report of Hong Kong Section of Guangzhou - Shenzhen - Hong Kong Express Rail Link (AEIAR-143/2009).

Noise Sensitive Receiver						2014				2015				2016				2017				2018			
TC-1 - Seaview Crescent Block1	SWL	Dist.(m) ¹	DC ²	FC ³	CNL, dB(A)	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Advanced Works																									
Activity 1 - Aviation Fuel Pipeline Diversion	117	4500	81	3	39							39	39	39	39	39									
Activity 2 - Power Cable Diversion	117	4500	81	3	39							39	39	39	39										
Land Formation Construction Activities																									
Activity 3 - Sand Blanket Laying	106	4040	80	3	29								37	32	32	32	32	29	32	32	29				
Activity 4 - Steel Cell	113	4040	80	3	36										36	36	36								
Activity 5a - Ground Treatment by DCM Barge	115	4040	80	3	38									41	41	41	41	41	38	41	41	41	41	41	43
Activity 5b - Ground Treatment by PVD Barge	113	4040	80	3	36									39	39	39	39	39	39	36	39	39			
Activity 5c - Ground Treatment by Stone Column (Water Based)	116	4040	80	3	39									42	39	42	42	42	39	39					
Activity 5d - Ground Treatment by Stone Column (Land Based)	115	4040	80	3	38													41	41	41					
Activity 5e - Ground Treatment by Sand Drains Barge	116	4040	80	3	39									39	39	42	42	42	39	39	42	42			
Activity 6 - Seawall Construction	111	4040	80	3	34										37	37	37	37	37	37	37	37	37	37	
Activity 7 - Marine Sand Filling	106	4040	80	3	29											29	32	32	32	32	32	32	32	34	29
Activity 8a - Filling Above Water (Public Fill)	120	4040	80	3	43													46	46	46	46	46	46	50	51
Activity 8b - Filling Above Water (Sand Fill)	122	4040	80	3	45												48	48	48	48	48	48	45	45	45
Activity 8c - Compaction	113	4040	80	3	36													39	39	39	39	39	39	44	47
Activity 9a - Placement of Surcharge	119	4040	80	3	42														45	45	45	45	45	50	50
Activity 9b - Removal of Surcharge	120	4040	80	3	43																43	43	46	51	57
Noise Impact, dB(A)												42	43	48	48	49	51	53	53	53	53	53	52	56	59
Noise Sensitive Receiver						2019				2020				2021				2022				2023			
TC-1 - Seaview Crescent Block1	SWL	Dist.(m) ¹	DC ²	FC ³	CNL, dB(A)	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Land Formation Construction Activities																									
Activity 3 - Sand Blanket Laying	106	4040	80	3	29											32	32								
Activity 4 - Steel Cell	113	4040	80	3	36																				
Activity 5a - Ground Treatment by DCM Barge	115	4040	80	3	38											38	38								
Activity 5b - Ground Treatment by PVD Barge	113	4040	80	3	36												36								
Activity 5c - Ground Treatment by Stone Column (Water Based)	116	4040	80	3	39																				
Activity 5d - Ground Treatment by Stone Column (Land Based)	115	4040	80	3	38																				
Activity 5e - Ground Treatment by Sand Drains Barge	116	4040	80	3	39											39	39								
Activity 6 - Seawall Construction	111	4040	80	3	34											34	34								
Activity 7 - Marine Sand Filling	106	4040	80	3	29												32	32							
Activity 8a - Filling Above Water (Public Fill)	120	4040	80	3	43	48															43	43			
Activity 8b - Filling Above Water (Sand Fill)	122	4040	80	3	45																45	45			
Activity 8c - Compaction	113	4040	80	3	36	48															36	36			
Activity 9a - Placement of Surcharge	119	4040	80	3	42	51	51	47													45	45	45	45	
Activity 9b - Removal of Surcharge	120	4040	80	3	43	48	53	57	52	52	50	51	43										43		
Noise Impact, dB(A)						55	55	57	52	52	50	51	43					43	47	49	49	45	43		

Remarks:

1. Slant distance is adopted for the construction noise assessment
2. Distance correction in dB(A)
3. Facade correction in dB(A)
4. Predicted Noise Levels = CNL + 10 log (No. of group of PMEs)

Bold figures denote exceedance of relevant noise criteria

Noise Sensitive Receiver						2014				2015				2016				2017				2018					
TC-1 - Seaview Crescent Block1	SWL	Dist.(m) ¹	DC ²	FC ³	CNL, dB(A)	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
Terminal 2 & Roadworks Construction Activities																											
Activity 1 - Advance Works for T2 Expansion	120	2200	75	3	48									48	48	48	48	48	48	48	48	48	48	48	48		
Activity 2 - Piling and D-wall	120	2200	75	3	48															48	48			48	48		
Activity 3 - AIS / BHS Sub-Structure	122	2200	75	3	50																			50	50	50	
Activity 4 - Superstructure	120	2200	75	3	48																				48	48	48
Activity 5 - Existing Structural Modification	118	2200	75	3	46																						
Activity 6 - ABWF & E&M Works	117	2200	75	3	45																						
Activity 7 - At-Grade & Elevated Road Works	122	2200	75	3	50															50	50	50	50	50	50	50	50
Roadworks at South Cargo Area Construction Activities																											
Activity 1 - Viaduct Roads	111	950	68	3	46															46	46	46	46	46	46	46	
Activity 2 - At-grade Roads	112	950	68	3	47															47	47	47	47	47	47	47	
Construction of Intermodal Transfer Terminal (Concurrent Project)																											
Activity 1 - Advance Works	120	2400	76	3	47			47	47																		
Activity 1a - Roadworks	123	2400	76	3	50			50	50	50																	
Activity 1b - BHS	124	2400	76	3	51			51	51	51	51	51			51	51											
Activity 1c - APM	127	2400	76	3	54			54	54	54	54																
Activity 2 - Main works	122	2400	76	3	49			49	49	49																	
Activity 2a - Bonded Road	123	2400	76	3	50									50	50	50	50	50									
Activity 2b - BRH & coach hall	123	2400	76	3	50					50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	
Activity 2c - Skypier (A&A works)	117	2400	76	3	44									44	44	44	44	44	44	44	44	44	44	44	44	44	
Activity 2d - APM tunnel	117	2400	76	3	44									44	44	44	44	44	44	44	44	44	44	44	44	44	
Construction of Other Airport Facilities Related Works (Concurrent Project)																											
Activity 1 - Site Formation	120	2700	77	3	46									46	46												
Activity 2 - Foundation & building works	122	2700	77	3	48											48	48	48	48	48	48	48	48	48	48	48	
Noise Impact, dB(A)								52	57	57	58	58	54	57	57	55	55	55	55	55	56	57	56	56	57	56	
Noise Sensitive Receiver						2019				2020				2021				2022				2023					
TC-1 - Seaview Crescent Block1	SWL	Dist.(m) ¹	DC ²	FC ³	CNL, dB(A)	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
Terminal 2 & Roadworks Construction Activities																											
Activity 1 - Advance Works for T2 Expansion	120	2200	75	3	48	48	48																				
Activity 2 - Piling and D-wall	120	2200	75	3	48																						
Activity 3 - AIS / BHS Sub-Structure	122	2200	75	3	50	50	50	50	50	50	50																
Activity 4 - Superstructure	120	2200	75	3	48	48	48	48	48	48	48	48	48	48	48												
Activity 5 - Existing Structural Modification	118	2200	75	3	46		46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46		
Activity 6 - ABWF & E&M Works	117	2200	75	3	45		45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45		
Activity 7 - At-Grade & Elevated Road Works	122	2200	75	3	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50		
Roadworks at South Cargo Area Construction Activities																											
Activity 1 - Viaduct Roads	111	950	68	3	46	46	46	46																			
Activity 2 - At-grade Roads	112	950	68	3	47																						
Construction of Other Airport Facilities Related Works (Concurrent Project)																											
Activity 1 - Site Formation	120	2700	77	3	46																						
Activity 2 - Foundation & building works	122	2700	77	3	48	48	48	48	48																		
Noise Impact, dB(A)						56	57	56	56	55	55	54	54	54	54	52	52	52	52	52	49	45					

Remarks:

1. Slant distance is adopted for the construction noise assessment
2. Distance correction in dB(A)
3. Facade correction in dB(A)
4. Predicted Noise Levels = CNL + 10 log (No. of group of PMEs)

Bold figures denote exceedance of relevant noise criteria

Noise Sensitive Receiver						2014				2015				2016				2017				2018				
TC-1 - Seaview Crescent Block1	SWL	Dist.(m) ¹	DC ²	FC ³	CNL, dB(A)	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	
Infrastructure - New Land & Existing Runway																										
Activity 1 - Site Grading & General Excavation	120	3650	79	3	44																					
Activity 2 - General Site Work (Including Utility & Drainage Systems)	121	3650	79	3	45																	44	44	44	44	
Activity 3a - Airfield Paving Flexible	120	3650	79	3	44																					
Activity 3b - Airfield Paving Rigid	120	3650	79	3	44																					
Activity 4 - APM & BHS Tunnel Construction	118	3650	79	3	42																					
Activity 5 - Vehicular Tunnel Construction	120	3650	79	3	44																					
Activity 6a - Terminal Building Foundations & Basement	121	3650	79	3	45																					
Activity 6b - Terminal Building Structure (Concrete)	122	3650	79	3	46																					
Activity 6c - Cladding and Roof	119	3650	79	3	43																					
Activity 7 - Ancillary Support Area Building Construction	122	3650	79	3	46																		46	46	46	
Activity 8 - Fit out	121	3650	79	3	45																					
Activity 9 - Roads	120	3650	79	3	44																					
Activity 10 - Airfield Planning	118	3650	79	3	42																					
Infrastructure - Midfield Modification																										
Activity 2 - General Site Work (Including Utility & Drainage Systems)	121	3020	78	3	46																					
Activity 5 - Vehicular Tunnel Construction	120	3020	78	3	45																					
Infrastructure - APM/BHS Systems																										
Activity 4 - APM & BHS Tunnel Construction	118	2200	75	3	46																					
Activity 6a - Terminal Building Foundations & Basement	121	2200	75	3	49																					
Activity 11 - APM Depot	120	2200	75	3	48																					
Construction of North Commercial District (Concurrent Project)																										
Activity 1 - Site Formation for Phase 1	120	2400	76	3	47																					
Activity 2 - Roadworks	123	2400	76	3	50																					
Activity 3 - Foundation & building works for Phase 1	123	2400	76	3	50																					
Activity 4 - Site Formation for Phase 2	120	2400	76	3	47																					
Activity 5 - Foundation & building works for Phase 2	123	2400	76	3	50																					
Infrastructure + NCD Land Formation + New EA Road																										
Terminal 2 + Roadworks + ITT + T1 Annex Building																										
Cumulative Noise Impact, dB(A)																										
Noise Sensitive Receiver																										
TC-1 - Seaview Crescent Block1	SWL	Dist.(m) ¹	DC ²	FC ³	CNL, dB(A)	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	
Infrastructure - New Land & Existing Runway																										
Activity 1 - Site Grading & General Excavation	120	3650	79	3	44																					
Activity 2 - General Site Work (Including Utility & Drainage Systems)	121	3650	79	3	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	
Activity 3a - Airfield Paving Flexible	120	3650	79	3	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	
Activity 3b - Airfield Paving Rigid	120	3650	79	3	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	
Activity 4 - APM & BHS Tunnel Construction	118	3650	79	3	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	
Activity 5 - Vehicular Tunnel Construction	120	3650	79	3	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	
Activity 6a - Terminal Building Foundations & Basement	121	3650	79	3	45																					
Activity 6b - Terminal Building Structure (Concrete)	122	3650	79	3	46																					
Activity 6c - Cladding and Roof	119	3650	79	3	43																					
Activity 7 - Ancillary Support Area Building Construction	122	3650	79	3	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	
Activity 8 - Fit out	121	3650	79	3	45																					
Activity 9 - Roads	120	3650	79	3	44	44	44	44	44	44	44	44	44													
Activity 10 - Airfield Planning	118	3650	79	3	42																					
Infrastructure - Midfield Modification																										
Activity 5 - Vehicular Tunnel Construction	120	3020	78	3	45	45	45	45	45																	
Infrastructure - APM/BHS Systems																										
Activity 4 - APM & BHS Tunnel Construction	118	2200	75	3	46	46	46	46	46	46	46															
Activity 9 - Roads	120	2200	75	3	48																					
Activity 11 - APM Depot	120	2200	75	3	48	48	48	48	48	48	48	48														
Construction of North Commercial District (Concurrent Project)																										
Activity 5 - Foundation & building works for Phase 2	123	2400	76	3	50	50	50	50	50																	
Infrastructure + NCD Land Formation + New EA Road																										
Terminal 2 + Roadworks + ITT + T1 Annex Building																										
Cumulative Noise Impact, dB(A)																										

Remarks:
 1. Slant distance is adopted for the construction noise assessment
 2. Distance correction in dB(A)
 3. Facade correction in dB(A)
 4. Predicted Noise Levels = CNL + 10 log (No. of group of PMEs)
Bold figures denote exceedance of relevant noise criteria

Noise Sensitive Receiver						2014				2015				2016				2017				2018				
TC-5 - Tung Chung West Development	SWL	Dist.(m) ¹	DC ²	FC ³	CNL, dB(A)	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	
Advanced Works																										
Activity 1 - Aviation Fuel Pipeline Diversion	117	3750	79	3	41							41	41	41	41	41										
Activity 2 - Power Cable Diversion	117	3750	79	3	41							41	41	41	41											
Land Formation Construction Activities																										
Activity 3 - Sand Blanket Laying	106	3920	80	3	29								37	32	32	32	32	29	32	32	29					
Activity 4 - Steel Cell	113	3920	80	3	36										36	36	36									
Activity 5a - Ground Treatment by DCM Barge	115	3920	80	3	38									41	41	41	41	41	38	41	41	41	41	41	43	
Activity 5b - Ground Treatment by PVD Barge	113	3920	80	3	36									39	39	39	39	39	39	36	39	39				
Activity 5c - Ground Treatment by Stone Column (Water Based)	116	3920	80	3	39									42	39	42	42	42	39	39						
Activity 5d - Ground Treatment by Stone Column (Land Based)	115	3920	80	3	38													41	41	41						
Activity 5e - Ground Treatment by Sand Drains Barge	116	3920	80	3	39									39	39	42	42	42	39	39	42	42				
Activity 6 - Seawall Construction	111	3920	80	3	34										37	37	37	37	37	37	37	37	37	37		
Activity 7 - Marine Sand Filling	106	3920	80	3	29											29	32	32	32	32	32	32	32	34	29	
Activity 8a - Filling Above Water (Public Fill)	120	3920	80	3	43													46	46	46	46	46	46	50	51	
Activity 8b - Filling Above Water (Sand Fill)	122	3920	80	3	45												48	48	48	48	48	48	45	45	45	
Activity 8c - Compaction	113	3920	80	3	36													39	39	39	39	39	39	44	47	
Activity 9a - Placement of Surcharge	119	3920	80	3	42														45	45	45	45	45	50	50	
Activity 9b - Removal of Surcharge	120	3920	80	3	43																43	43	46	51	57	
Noise Impact, dB(A)												44	45	49	49	49	51	53	53	53	53	53	52	56	59	
Noise Sensitive Receiver						2019				2020				2021				2022				2023				
TC-5 - Tung Chung West Development	SWL	Dist.(m) ¹	DC ²	FC ³	CNL, dB(A)	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	
Land Formation Construction Activities																										
Activity 3 - Sand Blanket Laying	106	3920	80	3	29											32	32									
Activity 4 - Steel Cell	113	3920	80	3	36																					
Activity 5a - Ground Treatment by DCM Barge	115	3920	80	3	38											38	38									
Activity 5b - Ground Treatment by PVD Barge	113	3920	80	3	36												36									
Activity 5c - Ground Treatment by Stone Column (Water Based)	116	3920	80	3	39																					
Activity 5d - Ground Treatment by Stone Column (Land Based)	115	3920	80	3	38																					
Activity 5e - Ground Treatment by Sand Drains Barge	116	3920	80	3	39											39	39									
Activity 6 - Seawall Construction	111	3920	80	3	34											34	34									
Activity 7 - Marine Sand Filling	106	3920	80	3	29												32	32								
Activity 8a - Filling Above Water (Public Fill)	120	3920	80	3	43	48														43	43					
Activity 8b - Filling Above Water (Sand Fill)	122	3920	80	3	45															45	45					
Activity 8c - Compaction	113	3920	80	3	36	48														36	36					
Activity 9a - Placement of Surcharge	119	3920	80	3	42	51	51	47												45	45	45	45			
Activity 9b - Removal of Surcharge	120	3920	80	3	43	48	53	57	52	52	50	51	43									43				
Noise Impact, dB(A)						55	55	57	52	52	50	51	43	43	47	49	49	45	43							

Remarks:

1. Slant distance is adopted for the construction noise assessment
2. Distance correction in dB(A)
3. Facade correction in dB(A)
4. Predicted Noise Levels = CNL + 10 log (No. of group of PMEs)

Bold figures denote exceedance of relevant noise criteria

Noise Sensitive Receiver						2014				2015				2016				2017				2018					
TC-5 - Tung Chung West Development	SWL	Dist.(m) ¹	DC ²	FC ³	CNL, dB(A)	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
Terminal 2 & Roadworks Construction Activities																											
Activity 1 - Advance Works for T2 Expansion	120	2700	77	3	46									46	46	46	46	46	46	46	46	46	46	46	46		
Activity 2 - Piling and D-wall	120	2700	77	3	46															46	46			46	46		
Activity 3 - AIS / BHS Sub-Structure	122	2700	77	3	48																			48	48	48	
Activity 4 - Superstructure	120	2700	77	3	46																			46	46	46	
Activity 5 - Existing Structural Modification	118	2700	77	3	44																						
Activity 6 - ABWF & E&M Works	117	2700	77	3	43																						
Activity 7 - At-Grade & Elevated Road Works	122	2700	77	3	48															48	48	48		48	48	48	48
Roadworks at South Cargo Area Construction Activities																											
Activity 1 - Viaduct Roads	111	500	62	3	52															52	52	52		52	52	52	52
Activity 2 - At-grade Roads	112	500	62	3	53															53	53	53		53	53		
Construction of Intermodal Transfer Terminal (Concurrent Project)																											
Activity 1 - Advance Works	120	3050	78	3	45			45	45																		
Activity 1a - Roadworks	123	3050	78	3	48			48	48	48	48																
Activity 1b - BHS	124	3050	78	3	49			49	49	49	49	49			49	49											
Activity 1c - APM	127	3050	78	3	52			52	52	52	52																
Activity 2 - Main works	122	3050	78	3	47			47	47	47																	
Activity 2a - Bonded Road	123	3050	78	3	48										48	48	48	48	48								
Activity 2b - BRH & coach hall	123	3050	78	3	48					48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	
Activity 2c - Skypier (A&A works)	117	3050	78	3	42										42	42	42	42	42	42	42	42	42	42	42	42	
Activity 2d - APM tunnel	117	3050	78	3	42						42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	
Construction of Other Airport Facilities Related Works (Concurrent Project)																											
Activity 1 - Site Formation	120	3200	78	3	45										45	45											
Activity 2 - Foundation & building works	122	3200	78	3	47												47	47	47	47	47	47	47	47	47	47	
Noise Impact, dB(A)								50	55	55	56	56	52	55	55	54	54	54	54	54	58	58	57	57	58	56	56
Noise Sensitive Receiver						2019				2020				2021				2022				2023					
TC-5 - Tung Chung West Development	SWL	Dist.(m) ¹	DC ²	FC ³	CNL, dB(A)	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
Terminal 2 & Roadworks Construction Activities																											
Activity 1 - Advance Works for T2 Expansion	120	2700	77	3	46	46	46																				
Activity 2 - Piling and D-wall	120	2700	77	3	46																						
Activity 3 - AIS / BHS Sub-Structure	122	2700	77	3	48	48	48	48	48	48	48																
Activity 4 - Superstructure	120	2700	77	3	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	
Activity 5 - Existing Structural Modification	118	2700	77	3	44		44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	
Activity 6 - ABWF & E&M Works	117	2700	77	3	43		43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	
Activity 7 - At-Grade & Elevated Road Works	122	2700	77	3	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	
Roadworks at South Cargo Area Construction Activities																											
Activity 1 - Viaduct Roads	111	500	62	3	52	52	52	52	52																		
Activity 2 - At-grade Roads	112	500	62	3	53																						
Construction of Other Airport Facilities Related Works (Concurrent Project)																											
Activity 1 - Site Formation	120	3200	78	3	45																						
Activity 2 - Foundation & building works	122	3200	78	3	47	47	47	47	47																		
Noise Impact, dB(A)						56	57	56	54	53	53	52	52	52	52	50	50	50	50	50	50	47	43				

Remarks:

1. Slant distance is adopted for the construction noise assessment
2. Distance correction in dB(A)
3. Facade correction in dB(A)
4. Predicted Noise Levels = CNL + 10 log (No. of group of PMEs)

Bold figures denote exceedance of relevant noise criteria

Noise Sensitive Receiver						2014				2015				2016				2017				2018			
TC-5 - Tung Chung West Development	SWL	Dist.(m) ¹	DC ²	FC ³	CNL, dB(A)	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Infrastructure - New Land & Existing Runway																									
Activity 1 - Site Grading & General Excavation	120	3560	79	3	44																	44	44	44	44
Activity 2 - General Site Work (Including Utility & Drainage Systems)	121	3560	79	3	45																	45	45	45	45
Activity 3a - Airfield Paving Flexible	120	3560	79	3	44																				
Activity 3b - Airfield Paving Rigid	120	3560	79	3	44																				
Activity 4 - APM & BHS Tunnel Construction	118	3560	79	3	42																				
Activity 5 - Vehicular Tunnel Construction	120	3560	79	3	44																				
Activity 6a - Terminal Building Foundations & Basement	121	3560	79	3	45																				
Activity 6b - Terminal Building Structure (Concrete)	122	3560	79	3	46																				
Activity 6c - Cladding and Roof	119	3560	79	3	43																				
Activity 7 - Ancillary Support Area Building Construction	122	3560	79	3	46																	46	46	46	46
Activity 8 - Fit out	121	3560	79	3	45																				
Activity 9 - Roads	120	3560	79	3	44																	44			
Activity 10 - Airfield Planning	118	3560	79	3	42																				
Infrastructure - Midfield Modification																									
Activity 2 - General Site Work (Including Utility & Drainage Systems)	121	2720	77	3	47													47							
Activity 5 - Vehicular Tunnel Construction	120	2720	77	3	46													46	46	46	46	46	46	46	46
Infrastructure - APM/BHS Systems																									
Activity 4 - APM & BHS Tunnel Construction	118	2700	77	3	44																	44	44	44	44
Activity 6a - Terminal Building Foundations & Basement	121	2700	77	3	47													47	47	47	47	47	47	47	47
Activity 11 - APM Depot	120	2700	77	3	46																	46	46	46	46
Construction of North Commercial District (Concurrent Project)																									
Activity 1 - Site Formation for Phase 1	120	3000	78	3	45							45	45												
Activity 2 - Roadworks	123	3000	78	3	48							48	48	48	48	48	48	48	48	48	48				
Activity 3 - Foundation & building works for Phase 1	123	3000	78	3	48							48	48	48	48	48	48	48	48	48	48				
Activity 4 - Site Formation for Phase 2	120	3000	78	3	45																	45	45		
Activity 5 - Foundation & building works for Phase 2	123	3000	78	3	48																	48	48	48	48
Infrastructure + NCD Land Formation + New EA Road												50	52	51	51	51	51	54	53	55	55	54	55	56	55
Terminal 2 + Roadworks + ITT + T1 Annex Building								50	55	55	56	56	52	55	55	54	54	54	58	58	57	57	58	56	56
Cumulative Noise Impact, dB(A)								50	55	55	56	57	55	57	57	57	57	59	60	61	60	60	60	61	62

Noise Sensitive Receiver						2019				2020				2021				2022				2023			
TC-5 - Tung Chung West Development	SWL	Dist.(m) ¹	DC ²	FC ³	CNL, dB(A)	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Infrastructure - New Land & Existing Runway																									
Activity 1 - Site Grading & General Excavation	120	3560	79	3	44																	44	44		
Activity 2 - General Site Work (Including Utility & Drainage Systems)	121	3560	79	3	45	45	45	45	45	45	45		45	45	45	45						45	45		
Activity 3a - Airfield Paving Flexible	120	3560	79	3	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44
Activity 3b - Airfield Paving Rigid	120	3560	79	3	44					44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44
Activity 4 - APM & BHS Tunnel Construction	118	3560	79	3	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42				
Activity 5 - Vehicular Tunnel Construction	120	3560	79	3	44	44				44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44
Activity 6a - Terminal Building Foundations & Basement	121	3560	79	3	45					45	45	45	45	45											
Activity 6b - Terminal Building Structure (Concrete)	122	3560	79	3	46									46	46	46	46	46	46						
Activity 6c - Cladding and Roof	119	3560	79	3	43													43	43	43					
Activity 7 - Ancillary Support Area Building Construction	122	3560	79	3	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46				
Activity 8 - Fit out	121	3560	79	3	45			45	45	45												45	45		
Activity 9 - Roads	120	3560	79	3	44	44	44	44	44	44	44	44										44	44		
Activity 10 - Airfield Planning	118	3560	79	3	42									42		42									
Infrastructure - Midfield Modification																									
Activity 5 - Vehicular Tunnel Construction	120	2720	77	3	46	46	46	46	46									46	46	46	46	46	46	46	46
Infrastructure - APM/BHS Systems																									
Activity 4 - APM & BHS Tunnel Construction	118	2700	77	3	44	44	44	44	44	44	44														
Activity 9 - Roads	120	2700	77	3	46													46							
Activity 11 - APM Depot	120	2700	77	3	46	46	46	46	46	46	46	46													
Construction of North Commercial District (Concurrent Project)																									
Activity 5 - Foundation & building works for Phase 2	123	3000	78	3	48	48	48	48	48																
Infrastructure + NCD Land Formation + New EA Road						55	55	55	56	55	54	53	53	54	54	54	54	53	55	55	54	45	44		
Terminal 2 + Roadworks + ITT + T1 Annex Building						56	57	56	54	53	53	52	52	52	52	50	50	50	50	50	47	43			
Cumulative Noise Impact, dB(A)						60	61	61	59	58	57	57	56	56	56	56	56	56	56	56	54	45	44		

- Remarks:
- Slant distance is adopted for the construction noise assessment
 - Distance correction in dB(A)
 - Facade correction in dB(A)
 - Predicted Noise Levels = CNL + 10 log (No. of group of PMEs)

Bold figures denote exceedance of relevant noise criteria

Noise Sensitive Receiver						2014				2015				2016				2017				2018				
TS-1 - Village House, Tin Sum	SWL	Dist.(m) ¹	DC ²	FC ³	CNL, dB(A)	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	
Advanced Works																										
Activity 1 - Aviation Fuel Pipeline Diversion	117	2650	76	3	44							44	44	44	44	44										
Activity 2 - Power Cable Diversion	117	2650	76	3	44							44	44	44	44											
Land Formation Construction Activities																										
Activity 3 - Sand Blanket Laying	106	3170	78	3	31								39	34	34	34	34	31	34	34	31					
Activity 4 - Steel Cell	113	3170	78	3	38										38	38	38									
Activity 5a - Ground Treatment by DCM Barge	115	3170	78	3	40									43	43	43	43	43	40	43	43	43	43	43	45	
Activity 5b - Ground Treatment by PVD Barge	113	3170	78	3	38									41	41	41	41	41	41	38	41	41				
Activity 5c - Ground Treatment by Stone Column (Water Based)	116	3170	78	3	41									44	41	44	44	44	41	41						
Activity 5d - Ground Treatment by Stone Column (Land Based)	115	3170	78	3	40													43	43	43						
Activity 5e - Ground Treatment by Sand Drains Barge	116	3170	78	3	41									41	41	44	44	44	41	41	44	44	44			
Activity 6 - Seawall Construction	111	3170	78	3	36										39	39	39	39	39	39	39	39	39	39		
Activity 7 - Marine Sand Filling	106	3170	78	3	31											31	34	34	34	34	34	34	34	34	31	
Activity 8a - Filling Above Water (Public Fill)	120	3170	78	3	45													48	48	48	48	48	48	52	53	
Activity 8b - Filling Above Water (Sand Fill)	122	3170	78	3	47												50	50	50	50	50	50	47	47	47	
Activity 8c - Compaction	113	3170	78	3	38													41	41	41	41	41	41	46	49	
Activity 9a - Placement of Surcharge	119	3170	78	3	44														47	47	47	47	47	52	52	
Activity 9b - Removal of Surcharge	120	3170	78	3	45																45	45	48	53	59	
Noise Impact, dB(A)																47	48	51	51	51	53	55	55	55	55	55
Noise Sensitive Receiver						2019				2020				2021				2022				2023				
TS-1 - Village House, Tin Sum	SWL	Dist.(m) ¹	DC ²	FC ³	CNL, dB(A)	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	
Land Formation Construction Activities																										
Activity 3 - Sand Blanket Laying	106	3170	78	3	31											34	34									
Activity 4 - Steel Cell	113	3170	78	3	38																					
Activity 5a - Ground Treatment by DCM Barge	115	3170	78	3	40											40	40									
Activity 5b - Ground Treatment by PVD Barge	113	3170	78	3	38												38									
Activity 5c - Ground Treatment by Stone Column (Water Based)	116	3170	78	3	41																					
Activity 5d - Ground Treatment by Stone Column (Land Based)	115	3170	78	3	40																					
Activity 5e - Ground Treatment by Sand Drains Barge	116	3170	78	3	41													41	41							
Activity 6 - Seawall Construction	111	3170	78	3	36												36	36								
Activity 7 - Marine Sand Filling	106	3170	78	3	31														34	34						
Activity 8a - Filling Above Water (Public Fill)	120	3170	78	3	45	50															45	45				
Activity 8b - Filling Above Water (Sand Fill)	122	3170	78	3	47																47	47				
Activity 8c - Compaction	113	3170	78	3	38	50															38	38				
Activity 9a - Placement of Surcharge	119	3170	78	3	44	53	53	49													47	47	47	47		
Activity 9b - Removal of Surcharge	120	3170	78	3	45	50	55	59	54	54	52	53	45										45			
Noise Impact, dB(A)						57	57	59	54	54	52	53	45					45	49	51	51	47	45			

Remarks:

1. Slant distance is adopted for the construction noise assessment
2. Distance correction in dB(A)
3. Facade correction in dB(A)
4. Predicted Noise Levels = CNL + 10 log (No. of group of PMEs)

Bold figures denote exceedance of relevant noise criteria

Noise Sensitive Receiver						2014				2015				2016				2017				2018					
TS-1 - Village House, Tin Sum	SWL	Dist.(m) ¹	DC ²	FC ³	CNL, dB(A)	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
Terminal 2 & Roadworks Construction Activities																											
Activity 1 - Advance Works for T2 Expansion	120	3000	78	3	45									45	45	45	45	45	45	45	45	45	45	45	45		
Activity 2 - Piling and D-wall	120	3000	78	3	45															45	45			45	45		
Activity 3 - AIS / BHS Sub-Structure	122	3000	78	3	47																			47	47	47	
Activity 4 - Superstructure	120	3000	78	3	45																			45	45	45	
Activity 5 - Existing Structural Modification	118	3000	78	3	43																						
Activity 6 - ABWF & E&M Works	117	3000	78	3	42																						
Activity 7 - At-Grade & Elevated Road Works	122	3000	78	3	47															47	47	47	47	47	47	47	47
Roadworks at South Cargo Area Construction Activities																											
Activity 1 - Viaduct Roads	111	620	64	3	50															50	50	50	50	50	50	50	
Activity 2 - At-grade Roads	112	620	64	3	51															51	51	51	51	51	51	51	
Construction of Intermodal Transfer Terminal (Concurrent Project)																											
Activity 1 - Advance Works	120	3450	79	3	44			44	44																		
Activity 1a - Roadworks	123	3450	79	3	47			47	47	47	47																
Activity 1b - BHS	124	3450	79	3	48			48	48	48	48	48			48	48											
Activity 1c - APM	127	3450	79	3	51			51	51	51	51																
Activity 2 - Main works	122	3450	79	3	46			46	46	46																	
Activity 2a - Bonded Road	123	3450	79	3	47										47	47	47	47	47								
Activity 2b - BRH & coach hall	123	3450	79	3	47					47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	
Activity 2c - Skypier (A&A works)	117	3450	79	3	41							41	41	41	41	41	41	41	41								
Activity 2d - APM tunnel	117	3450	79	3	41							41	41	41	41	41	41	41	41								
Construction of Other Airport Facilities Related Works (Concurrent Project)																											
Activity 1 - Site Formation	120	3200	78	3	45										45	45											
Activity 2 - Foundation & building works	122	3200	78	3	47													47	47	47	47	47	47	47	47	47	
Noise Impact, dB(A)								49	54	54	55	55	51	54	54	53	53	53	56	56	56	56	56	57	55	55	
Noise Sensitive Receiver						2019				2020				2021				2022				2023					
TS-1 - Village House, Tin Sum	SWL	Dist.(m) ¹	DC ²	FC ³	CNL, dB(A)	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
Terminal 2 & Roadworks Construction Activities																											
Activity 1 - Advance Works for T2 Expansion	120	3000	78	3	45	45	45																				
Activity 2 - Piling and D-wall	120	3000	78	3	45																						
Activity 3 - AIS / BHS Sub-Structure	122	3000	78	3	47	47	47	47	47	47	47																
Activity 4 - Superstructure	120	3000	78	3	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45								
Activity 5 - Existing Structural Modification	118	3000	78	3	43			43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	
Activity 6 - ABWF & E&M Works	117	3000	78	3	42			42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	
Activity 7 - At-Grade & Elevated Road Works	122	3000	78	3	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	
Roadworks at South Cargo Area Construction Activities																											
Activity 1 - Viaduct Roads	111	620	64	3	50	50	50	50																			
Activity 2 - At-grade Roads	112	620	64	3	51																						
Construction of Other Airport Facilities Related Works (Concurrent Project)																											
Activity 1 - Site Formation	120	3200	78	3	45																						
Activity 2 - Foundation & building works	122	3200	78	3	47	47	47	47	47																		
Noise Impact, dB(A)						55	55	55	53	52	52	51	51	51	51	51	51	49	49	49	49	49	49	46	42		

Remarks:

1. Slant distance is adopted for the construction noise assessment
2. Distance correction in dB(A)
3. Facade correction in dB(A)
4. Predicted Noise Levels = CNL + 10 log (No. of group of PMEs)

Bold figures denote exceedance of relevant noise criteria

Noise Sensitive Receiver						2014				2015				2016				2017				2018				
TS-1 - Village House, Tin Sum	SWL	Dist.(m) ¹	DC ²	FC ³	CNL, dB(A)	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	
Infrastructure - New Land & Existing Runway																										
Activity 1 - Site Grading & General Excavation	120	2810	77	3	46																					
Activity 2 - General Site Work (Including Utility & Drainage Systems)	121	2810	77	3	47																					
Activity 3a - Airfield Paving Flexible	120	2810	77	3	46																					
Activity 3b - Airfield Paving Rigid	120	2810	77	3	46																					
Activity 4 - APM & BHS Tunnel Construction	118	2810	77	3	44																					
Activity 5 - Vehicular Tunnel Construction	120	2810	77	3	46																					
Activity 6a - Terminal Building Foundations & Basement	121	2810	77	3	47																					
Activity 6b - Terminal Building Structure (Concrete)	122	2810	77	3	48																					
Activity 6c - Cladding and Roof	119	2810	77	3	45																					
Activity 7 - Ancillary Support Area Building Construction	122	2810	77	3	48																					
Activity 8 - Fit out	121	2810	77	3	47																					
Activity 9 - Roads	120	2810	77	3	46																					
Activity 10 - Airfield Planning	118	2810	77	3	44																					
Infrastructure - Midfield Modification																										
Activity 2 - General Site Work (Including Utility & Drainage Systems)	121	1850	73	3	51																					
Activity 5 - Vehicular Tunnel Construction	120	1850	73	3	50																					
Infrastructure - APM/BHS Systems																										
Activity 4 - APM & BHS Tunnel Construction	118	3000	78	3	43																					
Activity 6a - Terminal Building Foundations & Basement	121	3000	78	3	46																					
Activity 11 - APM Depot	120	3000	78	3	45																					
Construction of North Commercial District (Concurrent Project)																										
Activity 1 - Site Formation for Phase 1	120	3350	79	3	44																					
Activity 2 - Roadworks	123	3350	79	3	47																					
Activity 3 - Foundation & building works for Phase 1	123	3350	79	3	47																					
Activity 4 - Site Formation for Phase 2	120	3350	79	3	44																					
Activity 5 - Foundation & building works for Phase 2	123	3350	79	3	47																					
Infrastructure + NCD Land Formation + New EA Road																										
Terminal 2 + Roadworks + ITT + T1 Annex Building																										
Cumulative Noise Impact, dB(A)																										
Noise Sensitive Receiver																										
TS-1 - Village House, Tin Sum	SWL	Dist.(m) ¹	DC ²	FC ³	CNL, dB(A)	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	
Infrastructure - New Land & Existing Runway																										
Activity 1 - Site Grading & General Excavation	120	2810	77	3	46	46	46	46	46	46																
Activity 2 - General Site Work (Including Utility & Drainage Systems)	121	2810	77	3	47	47	47	47	47	47																
Activity 3a - Airfield Paving Flexible	120	2810	77	3	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	
Activity 3b - Airfield Paving Rigid	120	2810	77	3	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	
Activity 4 - APM & BHS Tunnel Construction	118	2810	77	3	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	
Activity 5 - Vehicular Tunnel Construction	120	2810	77	3	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	
Activity 6a - Terminal Building Foundations & Basement	121	2810	77	3	47					47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	
Activity 6b - Terminal Building Structure (Concrete)	122	2810	77	3	48									48	48	48	48	48	48	48	48	48	48	48	48	
Activity 6c - Cladding and Roof	119	2810	77	3	45													45	45	45	45	45	45	45	45	
Activity 7 - Ancillary Support Area Building Construction	122	2810	77	3	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	
Activity 8 - Fit out	121	2810	77	3	47					47	47	47	47	47	47	47	47					47	47	47	47	
Activity 9 - Roads	120	2810	77	3	46	46	46	46	46	46	46	46	46									46	46	46	46	
Activity 10 - Airfield Planning	118	2810	77	3	44									44	44	44	44									
Infrastructure - Midfield Modification																										
Activity 5 - Vehicular Tunnel Construction	120	1850	73	3	50	50	50	50	50									50	50	50	50	50	50	50	50	
Infrastructure - APM/BHS Systems																										
Activity 4 - APM & BHS Tunnel Construction	118	3000	78	3	43	43	43	43	43	43	43	43	43													
Activity 9 - Roads	120	3000	78	3	45																					
Activity 11 - APM Depot	120	3000	78	3	45	45	45	45	45	45	45	45	45													
Construction of North Commercial District (Concurrent Project)																										
Activity 5 - Foundation & building works for Phase 2	123	3350	79	3	47	47	47	47	47																	
Infrastructure + NCD Land Formation + New EA Road						57	57	57	58	57	56	55	55	56	56	57	56	56	57	57	56	47	46			
Terminal 2 + Roadworks + ITT + T1 Annex Building						55	55	55	53	52	52	51	51	51	51	49	49	49	49	49	46	42				
Cumulative Noise Impact, dB(A)						61	61	62	60	59	58	58	57	57	58	58	58	58	58	58	58	56	47	46		

Remarks:
 1. Slant distance is adopted for the construction noise assessment
 2. Distance correction in dB(A)
 3. Facade correction in dB(A)
 4. Predicted Noise Levels = CNL + 10 log (No. of group of PMEs)
Bold figures denote exceedance of relevant noise criteria

Noise Sensitive Receiver						2014				2015				2016				2017				2018					
SLW-1 - House No.1, Sha Lo Wan	SWL	Dist.(m) ¹	DC ²	FC ³	CNL, dB(A)	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
Advanced Works																											
Activity 1 - Aviation Fuel Pipeline Diversion	117	1140	69	3	51							51	51	51	51	51											
Activity 2 - Power Cable Diversion	117	1140	69	3	51							51	51	51	51												
Land Formation Construction Activities																											
Activity 3 - Sand Blanket Laying	106	2600	76	3	33								41	36	36	36	36	33	36	36	33						
Activity 4 - Steel Cell	113	2600	76	3	40										40	40	40										
Activity 5a - Ground Treatment by DCM Barge	115	2600	76	3	42									45	45	45	45	45	42	45	45	45	45	45	47		
Activity 5b - Ground Treatment by PVD Barge	113	2600	76	3	40									43	43	43	43	43	43	40	43	43			43		
Activity 5c - Ground Treatment by Stone Column (Water Based)	116	2600	76	3	43									46	43	46	46	46	43	43							
Activity 5d - Ground Treatment by Stone Column (Land Based)	115	2600	76	3	42													45	45	45							
Activity 5e - Ground Treatment by Sand Drains Barge	116	2600	76	3	43									43	43	46	46	46	43	43	46	46			46		
Activity 6 - Seawall Construction	111	2600	76	3	38										41	41	41	41	41	41	41	41	41	41	41		
Activity 7 - Marine Sand Filling	106	2600	76	3	33											33	36	36	36	36	36	36	36	36	33		
Activity 8a - Filling Above Water (Public Fill)	120	2600	76	3	47													50	50	50	50	50	50	54	55		
Activity 8b - Filling Above Water (Sand Fill)	122	2600	76	3	49													52	52	52	52	52	49	49	49		
Activity 8c - Compaction	113	2600	76	3	40													43	43	43	43	43	43	48	51		
Activity 9a - Placement of Surcharge	119	2600	76	3	46													49	49	49	49	49	54	54	54		
Activity 9b - Removal of Surcharge	120	2600	76	3	47														49	49	47	47	50	55	61		
Noise Impact, dB(A)																		54	54	56	56	55	55	57	57	60	63
Noise Sensitive Receiver						2019				2020				2021				2022				2023					
SLW-1 - House No.1, Sha Lo Wan	SWL	Dist.(m) ¹	DC ²	FC ³	CNL, dB(A)	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
Land Formation Construction Activities																											
Activity 3 - Sand Blanket Laying	106	2600	76	3	33											36	36										
Activity 4 - Steel Cell	113	2600	76	3	40																						
Activity 5a - Ground Treatment by DCM Barge	115	2600	76	3	42											42	42										
Activity 5b - Ground Treatment by PVD Barge	113	2600	76	3	40												40										
Activity 5c - Ground Treatment by Stone Column (Water Based)	116	2600	76	3	43																						
Activity 5d - Ground Treatment by Stone Column (Land Based)	115	2600	76	3	42																						
Activity 5e - Ground Treatment by Sand Drains Barge	116	2600	76	3	43											43	43										
Activity 6 - Seawall Construction	111	2600	76	3	38											38	38										
Activity 7 - Marine Sand Filling	106	2600	76	3	33												36	36									
Activity 8a - Filling Above Water (Public Fill)	120	2600	76	3	47					52												47	47				
Activity 8b - Filling Above Water (Sand Fill)	122	2600	76	3	49																	49	49				
Activity 8c - Compaction	113	2600	76	3	40					52												40	40				
Activity 9a - Placement of Surcharge	119	2600	76	3	46					55	55	51										49	49				
Activity 9b - Removal of Surcharge	120	2600	76	3	47					52	57	61	56	56	54	55	47										
Noise Impact, dB(A)						59	59	61	56	56	54	55	47					47	51	53	53	49	47				

Remarks:

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2. Distance correction in dB(A)
3. Facade correction in dB(A)
4. Predicted Noise Levels = CNL + 10 log (No. of group of PMEs)

Bold figures denote exceedance of relevant noise criteria

Noise Sensitive Receiver						2014				2015				2016				2017				2018				
SLW-1 - House No.1, Sha Lo Wan	SWL	Dist.(m) ¹	DC ²	FC ³	CNL, dB(A)	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	
Terminal 2 & Roadworks Construction Activities																										
Activity 1 - Advance Works for T2 Expansion	120	4100	80	3	43									43	43	43	43	43	43	43	43	43	43	43	43	
Activity 2 - Piling and D-wall	120	4100	80	3	43															43	43			43	43	
Activity 3 - AIS / BHS Sub-Structure	122	4100	80	3	45																			45	45	45
Activity 4 - Superstructure	120	4100	80	3	43																			43	43	43
Activity 5 - Existing Structural Modification	118	4100	80	3	41																					
Activity 6 - ABWF & E&M Works	117	4100	80	3	40																					
Activity 7 - At-Grade & Elevated Road Works	122	4100	80	3	45															45	45	45	45	45	45	45
Roadworks at South Cargo Area Construction Activities																										
Activity 1 - Viaduct Roads	111	1820	73	3	41															41	41	41	41	41	41	41
Activity 2 - At-grade Roads	112	1820	73	3	42															42	42	42	42	42	42	42
Construction of Intermodal Transfer Terminal (Concurrent Project)																										
Activity 1 - Advance Works	120	4650	81	3	42			42	42																	
Activity 1a - Roadworks	123	4650	81	3	45			45	45	45	45	45														
Activity 1b - BHS	124	4650	81	3	46			46	46	46	46	46	46		46	46										
Activity 1c - APM	127	4650	81	3	49			49	49	49	49	49														
Activity 2 - Main works	122	4650	81	3	44			44	44	44	44															
Activity 2a - Bonded Road	123	4650	81	3	45									45	45	45	45	45	45							
Activity 2b - BRH & coach hall	123	4650	81	3	45					45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45
Activity 2c - Skypier (A&A works)	117	4650	81	3	39						39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39
Activity 2d - APM tunnel	117	4650	81	3	39						39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39
Construction of Other Airport Facilities Related Works (Concurrent Project)																										
Activity 1 - Site Formation	120	4050	80	3	43									43	43											
Activity 2 - Foundation & building works	122	4050	80	3	45											45	45	45	45	45	45	45	45	45	45	45
Noise Impact, dB(A)								47	52	52	53	53	49	52	52	51	51	51	52	52	51	51	51	53	52	52
Noise Sensitive Receiver						2019				2020				2021				2022				2023				
SLW-1 - House No.1, Sha Lo Wan	SWL	Dist.(m) ¹	DC ²	FC ³	CNL, dB(A)	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	
Terminal 2 & Roadworks Construction Activities																										
Activity 1 - Advance Works for T2 Expansion	120	4100	80	3	43	43	43																			
Activity 2 - Piling and D-wall	120	4100	80	3	43																					
Activity 3 - AIS / BHS Sub-Structure	122	4100	80	3	45	45	45	45	45	45	45															
Activity 4 - Superstructure	120	4100	80	3	43	43	43	43	43	43	43	43	43	43	43											
Activity 5 - Existing Structural Modification	118	4100	80	3	41		41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	
Activity 6 - ABWF & E&M Works	117	4100	80	3	40		40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	
Activity 7 - At-Grade & Elevated Road Works	122	4100	80	3	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	
Roadworks at South Cargo Area Construction Activities																										
Activity 1 - Viaduct Roads	111	1820	73	3	41	41	41	41																		
Activity 2 - At-grade Roads	112	1820	73	3	42																					
Construction of Other Airport Facilities Related Works (Concurrent Project)																										
Activity 1 - Site Formation	120	4050	80	3	43																					
Activity 2 - Foundation & building works	122	4050	80	3	45	45	45	45	45																	
Noise Impact, dB(A)						52	52	52	51	50	50	49	49	49	49	49	47	47	47	47	47	47	44	40		

Remarks:

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3. Facade correction in dB(A)
4. Predicted Noise Levels = CNL + 10 log (No. of group of PMEs)

Bold figures denote exceedance of relevant noise criteria

Noise Sensitive Receiver						2014				2015				2016				2017				2018					
SLW-1 - House No.1, Sha Lo Wan	SWL	Dist.(m) ¹	DC ²	FC ³	CNL, dB(A)	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
Infrastructure - New Land & Existing Runway																											
Activity 1 - Site Grading & General Excavation	120	2180	75	3	48																						
Activity 2 - General Site Work (Including Utility & Drainage Systems)	121	2180	75	3	49																						
Activity 3a - Airfield Paving Flexible	120	2180	75	3	48																						
Activity 3b - Airfield Paving Rigid	120	2180	75	3	48																						
Activity 4 - APM & BHS Tunnel Construction	118	2180	75	3	46																						
Activity 5 - Vehicular Tunnel Construction	120	2180	75	3	48																						
Activity 6a - Terminal Building Foundations & Basement	121	2180	75	3	49																						
Activity 6b - Terminal Building Structure (Concrete)	122	2180	75	3	50																						
Activity 6c - Cladding and Roof	119	2180	75	3	47																						
Activity 7 - Ancillary Support Area Building Construction	122	2180	75	3	50																						
Activity 8 - Fit out	121	2180	75	3	49																						
Activity 9 - Roads	120	2180	75	3	48																						
Activity 10 - Airfield Planning	118	2180	75	3	46																						
Infrastructure - Midfield Modification																											
Activity 2 - General Site Work (Including Utility & Drainage Systems)	121	1250	70	3	54																						
Activity 5 - Vehicular Tunnel Construction	120	1250	70	3	53																						
Infrastructure - APM/BHS Systems																											
Activity 4 - APM & BHS Tunnel Construction	118	4100	80	3	41																						
Activity 6a - Terminal Building Foundations & Basement	121	4100	80	3	44																						
Activity 11 - APM Depot	120	4100	80	3	43																						
Construction of North Commercial District (Concurrent Project)																											
Activity 1 - Site Formation for Phase 1	120	4450	81	3	42																						
Activity 2 - Roadworks	123	4450	81	3	45																						
Activity 3 - Foundation & building works for Phase 1	123	4450	81	3	45																						
Activity 4 - Site Formation for Phase 2	120	4450	81	3	42																						
Activity 5 - Foundation & building works for Phase 2	123	4450	81	3	45																						
Infrastructure + NCD Land Formation + New EA Road																											
Terminal 2 + Roadworks + ITT + T1 Annex Building																											
Cumulative Noise Impact, dB(A)																											
Noise Sensitive Receiver																											
SLW-1 - House No.1, Sha Lo Wan	SWL	Dist.(m) ¹	DC ²	FC ³	CNL, dB(A)	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
Infrastructure - New Land & Existing Runway																											
Activity 1 - Site Grading & General Excavation	120	2180	75	3	48	48	48	48	48	48																	
Activity 2 - General Site Work (Including Utility & Drainage Systems)	121	2180	75	3	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	
Activity 3a - Airfield Paving Flexible	120	2180	75	3	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	
Activity 3b - Airfield Paving Rigid	120	2180	75	3	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	
Activity 4 - APM & BHS Tunnel Construction	118	2180	75	3	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	
Activity 5 - Vehicular Tunnel Construction	120	2180	75	3	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	
Activity 6a - Terminal Building Foundations & Basement	121	2180	75	3	49																						
Activity 6b - Terminal Building Structure (Concrete)	122	2180	75	3	50																						
Activity 6c - Cladding and Roof	119	2180	75	3	47																						
Activity 7 - Ancillary Support Area Building Construction	122	2180	75	3	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	
Activity 8 - Fit out	121	2180	75	3	49																						
Activity 9 - Roads	120	2180	75	3	48	48	48	48	48	48	48	48	48														
Activity 10 - Airfield Planning	118	2180	75	3	46																						
Infrastructure - Midfield Modification																											
Activity 5 - Vehicular Tunnel Construction	120	1250	70	3	53	53	53	53	53																		
Infrastructure - APM/BHS Systems																											
Activity 4 - APM & BHS Tunnel Construction	118	4100	80	3	41	41	41	41	41	41	41																
Activity 9 - Roads	120	4100	80	3	43																						
Activity 11 - APM Depot	120	4100	80	3	43	43	43	43	43	43	43	43															
Construction of North Commercial District (Concurrent Project)																											
Activity 5 - Foundation & building works for Phase 2	123	4450	81	3	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	
Infrastructure + NCD Land Formation + New EA Road																											
Terminal 2 + Roadworks + ITT + T1 Annex Building																											
Cumulative Noise Impact, dB(A)																											

Remarks:
 1. Slant distance is adopted for the construction noise assessment
 2. Distance correction in dB(A)
 3. Facade correction in dB(A)
 4. Predicted Noise Levels = CNL + 10 log (No. of group of PMEs)
Bold figures denote exceedance of relevant noise criteria

PME	TM or other reference	SWL, dB(A)	No. of PME per group	% on time	Screening Effect, dB(A)	Noise Mitigation Measures	Total SWL, dB(A)
Advanced Works							
Activity 1 - Aviation Fuel Pipeline Diversion							
Drill rig, rotary type (diesel)	[1]	110	2	70%	-10	Movable Barrier	101
Piling, diaphragm wall, bentonite filtering plant	CNP 162	105	2	100%	-10	Movable Barrier	98
Welding plant	[2]	78	5	70%	-10	Movable Barrier	73
Tug boat	CNP 221	110	3	80%			114
Derrick barge	CNP 061	104	2	80%			106
Total SWL, dB (A)							115
Activity 2 - Power Cable Diversion							
Drill rig, rotary type (diesel)	[1]	110	2	70%	-10	Movable Barrier	101
Piling, diaphragm wall, bentonite filtering plant	CNP 162	105	2	100%	-10	Movable Barrier	98
Welding plant	[2]	78	5	70%	-10	Movable Barrier	73
Tug boat	CNP 221	110	3	80%			114
Derrick barge	CNP 061	104	2	80%			106
Total SWL, dB (A)							115
Land Formation Construction Activities							
Activity 3 - Sand Blanket Laying							
Dredger, suction	[1]	103	1	80%			102
Water pump (electric)	CNP 281	88	1	100%	-10	Movable Barrier	78
Derrick barge	CNP 061	104	1	80%			103
Total SWL, dB (A)							106
Activity 4 - Steel Cell							
Steel Cell Barge	CNP 061	104	1	80%			103
Tug boat	CNP 221	110	2	80%			112
Derrick barge	CNP 061	104	1	80%			103
Total SWL, dB (A)							113
Activity 5a - Ground Treatment by DCM Barge							
Dredger, grab	CNP 063	112	1	80%			111
Tug boat	CNP 221	110	2	80%			112
Derrick barge	CNP 061	104	1	80%			103
Water pump (electric)	CNP 281	88	1	100%	-10	Movable Barrier	78
Total SWL, dB (A)							115
Activity 5b - Ground Treatment by PVD Barge							
Dredger, grab	CNP 063	112	1	80%			111
Tug boat	CNP 221	110	1	80%			109
Total SWL, dB (A)							113
Activity 5c - Ground Treatment by Stone Column (Water Based)							
Stone Column Barge	CNP 063	112	1	80%			111
Tug boat	CNP 221	110	2	80%			112
Dredger, grab	CNP 063	112	1	80%			111
Total SWL, dB (A)							116
Activity 5d - Ground Treatment by Stone Column (Land Based)							
Drill rig, rotary type (diesel)	[1]	110	1	50%	-10	Movable Barrier	97
Generator, standard	CNP 101	108	1	80%	-15	Noise Enclosure	92
Dredger, grab	CNP 063	112	1	80%			111
Crane, mobile	EPD- 01516	101	1	80%	-5	Movable Barrier	95
Total SWL, dB (A)							111
Activity 5e - Ground Treatment by Sand Drains Barge							
Stone Drain Barge	CNP 063	112	1	80%			111
Tug boat	CNP 221	110	2	80%			112
Dredger, grab	CNP 063	112	1	80%			111
Total SWL, dB (A)							116
Activity 6 - Seawall Construction							
Derrick lighter	CNP 061	104	1	80%			103
Derrick barge (delivery of rock)	CNP 061	104	1	80%			103
Derrick barge (delivery of precast unit)	CNP 061	104	1	80%			103
Tug boat	CNP 221	110	1	80%			109
Total SWL, dB (A)							111
Activity 7 - Marine Sand Filling							
Dredger, suction	[1]	103	1	80%			102
Water pump (electric)	CNP 281	88	1	100%	-10	Movable Barrier	78
Derrick barge	CNP 061	104	1	80%			103
Total SWL, dB (A)							106
Activity 8a - Filling Above Water (Public Fill)							
Derrick barge	CNP 061	104	1	80%			103
Conveyor belt	CNP 041	90	1	80%			89
Dump truck, 5.5 tonne < gross vehicle weight ≤ 38 tonne	[1]	105	3	50%	-5	Movable Barrier	102
Bulldozer, wheeled	EPD- QPME	110	1	80%	-5	Movable Barrier	104
Roller, vibratory	EPD- 00591	105	1	80%	-5	Movable Barrier	99
Total SWL, dB (A)							108
Activity 8b - Filling Above Water (Sand Fill)							
Dredger, suction	[1]	103	1	80%			102
Water pump (electric)	CNP 281	88	1	100%	-5	Movable Barrier	83
Derrick barge	CNP 061	104	1	80%			103
Dump truck, 5.5 tonne < gross vehicle weight ≤ 38 tonne	[1]	105	5	50%	-5	Movable Barrier	104
Bulldozer, wheeled	EPD- QPME	110	1	80%	-5	Movable Barrier	104
Total SWL, dB (A)							109

PME	TM or other reference	SWL, dB(A)	No. of PME per group	% on time	Screening Effect, dB(A)	Noise Mitigation Measures	Total SWL, dB(A)
Activity 8c - Compaction							
Compactor, vibratory	EPD- 00054	102	1	80%	-5	Movable Barrier	96
Generator, standard	CNP 101	108	1	100%	-15	Noise Enclosure	93
Crane, mobile	EPD- 01516	101	1	80%	-5	Movable Barrier	95
Total SWL, dB (A)							100
Activity 9a - Placement of Surcharge							
Derrick barge	CNP 061	104	1	80%			103
Conveyor belt	CNP 041	90	1	80%			89
Dump truck , 5.5 tonne < gross vehicle weight ≤ 38 tonne	[1]	105	2	50%	-5	Movable Barrier	100
Bulldozer, wheeled	EPD- QPME	110	1	80%	-5	Movable Barrier	104
Total SWL, dB (A)							107
Activity 9b - Removal of Surcharge							
Derrick barge	CNP 061	104	1	80%			103
Conveyor belt	CNP 041	90	1	80%			89
Dump truck , 5.5 tonne < gross vehicle weight ≤ 38 tonne	[1]	105	2	50%	-5	Movable Barrier	100
Excavator, wheeled/tracked	EPD- 01230	99	3	80%	-5	Movable Barrier	98
Total SWL, dB (A)							106
Construction of Extension of South Perimeter Road							
Activity - Roadworks							
Air compressor, air flow > 10m ³ /min and ≤ 30m ³ /min	CNP 002	102	2	100%	-15	Noise Enclosure	90
Asphalt paver	CNP 00075	106	1	80%	-5	Movable Barrier	100
Breaker, hand-held, mass > 10kg and < 20kg	CNP 024	108	2	50%	-10	Movable Barrier	98
Breaker, excavator mounted (hydraulic)	CNP 028	122	2	80%	-10	Movable Barrier	114
Ballast tamper, hand-held (electric)	CNP 029	105	2	50%	-10	Movable Barrier	95
Bulldozer, wheeled	EPD- QPME	110	1	50%	-5	Movable Barrier	102
Concrete lorry mixer	CNP 044	109	2	50%	-5	Movable Barrier	104
Crane, mobile	CNP 01516	101	2	80%	-5	Movable Barrier	98
Compactor, vibratory	CNP 00054	102	2	50%	-5	Movable Barrier	97
Drill rig, rotary type (diesel)	[1]	110	1	50%	-10	Movable Barrier	97
Excavator, wheeled/tracked	EPD- 01230	99	2	80%	-5	Movable Barrier	96
Generator, silenced, 75 dB(A) at 7 m	CNP 102	100	2	70%	-5	Movable Barrier	96
Grader	CNP 104	113	1	50%	-5	Movable Barrier	105
Lorry, with crane/grab, 5.5 tonne < gross vehicle weight ≤ 38 tonne	[1]	105	2	50%	-5	Movable Barrier	100
Piling, large diameter bored, reverse circulation drill	CNP 166	100	2	50%	-10	Movable Barrier	90
Poker, vibratory, hand-held (electric)	[1]	102	2	50%	-5	Movable Barrier	97
Road roller	CNP 00223	99	2	50%	-5	Movable Barrier	94
Roller, vibratory	CNP 00591	105	2	50%	-5	Movable Barrier	100
Water pump, submersible (electric)	CNP 283	85	2	100%	-10	Movable Barrier	78
Dump truck , 5.5 tonne < gross vehicle weight ≤ 38 tonne	[1]	105	2	50%	-5	Movable Barrier	100
Total SWL, dB (A)							116

Note: [1] Extracted from EPD document namely, "Sound Power Levels of Other Commonly Used PME"

http://www.epd.gov.hk/epd/english/application_for_licences/guidance/files/OtherSWLe.pdf

[2] SWL is referred to the Appendix 5.1 of approved EIA Report of Hong Kong Section of Guangzhou - Shenzhen - Hong Kong Express Rail Link (AEIAR-143/2009).

PME	TM or other reference	SWL, dB(A)	No. of PME per group	% on time	Screening Effect, dB(A)	Noise Mitigation Measures	Total SWL, dB(A)
Terminal 2 & Roadworks Construction Activities							
Activity 1 - Advance Works for T2 Expansion							
Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	1	100%	-15	Movable Barrier	87
Breaker, hand-held, mass > 10kg and < 20kg	CNP 024	108	2	50%	-10	Movable Barrier	98
Concrete lorry mixer	CNP 044	109	2	50%	-5	Movable Barrier	104
Crane, mobile	EPD- 01516	101	1	80%	-5	Movable Barrier	95
Dump truck , 5.5 tonne < gross vehicle weight ≤ 38 tonne	[1]	105	2	50%	-5	Movable Barrier	100
Drill rig, rotary type (diesel)	[1]	110	1	50%	-10	Movable Barrier	97
Excavator, wheeled/tracked	EPD- 01230	99	1	80%	-5	Movable Barrier	93
Generator, silenced, 75 dB(A) at 7 m	CNP 102	100	1	69%	-15	Noise Enclosure	83
Lorry, with crane/grab, 5.5 tonne < gross vehicle weight ≤ 38 tonne	[1]	105	2	50%	-5	Movable Barrier	100
Piling, large diameter bored, reverse circulation drill	CNP 166	100	2	50%	-10	Movable Barrier	90
Poker, vibratory, hand-held (electric)	[1]	102	1	50%	-5	Movable Barrier	94
Water pump, submersible (electric)	CNP 283	85	1	100%	-10	Movable Barrier	75
Total SWL, dB (A)							108
Activity 2 - Piling and D-wall							
Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	2	100%	-15	Noise Enclosure	90
Bar bender and cutter (electric)	CNP 021	90	2	100%	-10	Movable Barrier	83
Concrete lorry mixer	CNP 044	109	2	50%	-5	Movable Barrier	104
Concrete pump, stationary/ lorry mounted	CNP 047	109	2	50%	-10	Movable Barrier	99
Crane, mobile	EPD- 01516	101	2	80%	-5	Movable Barrier	98
Dump truck , 5.5 tonne < gross vehicle weight ≤ 38 tonne	[1]	105	2	50%	-5	Movable Barrier	100
Generator, silenced, 75 dB(A) at 7 m	CNP 102	100	2	70%	-15	Noise Enclosure	86
Welding plant	[2]	78	2	80%	-10	Movable Barrier	70
Piling, diaphragm wall, bentonite filtering plant	CNP 162	105	2	100%	-10	Movable Barrier	98
Piling, diaphragm wall, hydraulic extractor	CNP 163	90	2	100%	-10	Movable Barrier	83
Piling, large diameter bored, reverse circulation drill	CNP 166	100	2	70%	-10	Movable Barrier	91
Water pump, submersible (electric)	CNP 283	85	2	100%	-10	Movable Barrier	78
Total SWL, dB (A)							108
Activity 3 - AIS / BHS Sub-Structure							
Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	2	100%	-15	Noise Enclosure	90
Breaker, hand-held, mass >= 20kg and <= 35kg	CNP 025	111	2	50%	-10	Movable Barrier	101
Concrete lorry mixer	CNP 044	109	2	50%	-5	Movable Barrier	104
Crane, mobile	EPD- 01516	101	2	50%	-5	Movable Barrier	96
Concrete burster	[1]	90	2	80%	-10	Movable Barrier	82
Dump truck , 5.5 tonne < gross vehicle weight ≤ 38 tonne	[1]	105	2	50%	-5	Movable Barrier	100
Dump truck, with grab, 5.5 tonne < gross vehicle weight ≤ 38 tonne	[1]	105	2	50%	-5	Movable Barrier	100
Drill rig, rotary type (diesel)	[1]	110	2	50%	-10	Movable Barrier	100
Excavator, wheeled/tracked	EPD- 01230	99	2	70%	-5	Movable Barrier	95
Excavator, mini-robot mounted	[1]	94	2	50%	-5	Movable Barrier	89
Generator, silenced, 75 dB(A) at 7 m	CNP 102	100	2	50%	-15	Noise Enclosure	85
Grout mixer	[1]	90	2	50%	-10	Movable Barrier	80
Grout pump	[1]	105	2	50%	-10	Movable Barrier	95
Lorry, with crane/grab, 5.5 tonne < gross vehicle weight ≤ 38 tonne	[1]	105	2	50%	-5	Movable Barrier	100
Piling, large diameter bored, reverse circulation drill	CNP 166	100	2	70%	-10	Movable Barrier	91
Poker, vibratory, hand-held (electric)	[1]	102	2	50%	-5	Movable Barrier	97
Water pump (electric)	CNP 281	88	2	50%	-10	Movable Barrier	78
Total SWL, dB (A)							110
Activity 4 - Superstructure							
Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	2	100%	-15	Noise Enclosure	90
Chipper, hand-held (pneumatic)	CNP 043	112	2	50%	-10	Movable Barrier	102
Concrete lorry mixer	CNP 044	109	2	50%	-5	Movable Barrier	104
Concrete pump, stationary/ lorry mounted	CNP 047	109	2	50%	-10	Movable Barrier	99
Crane, mobile	EPD- 01516	101	2	80%	-5	Movable Barrier	98
Generator, silenced, 75 dB(A) at 7 m	CNP 102	100	2	100%	-15	Noise Enclosure	88
Poker, vibratory, hand-held (electric)	[1]	102	2	50%	-5	Movable Barrier	97
Saw, circular, wood	CNP 201	108	2	100%	-10	Movable Barrier	101
Total SWL, dB (A)							109
Activity 5 - Existing Structural Modification							
Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	2	100%	-15	Noise Enclosure	90
Chipper, hand-held (pneumatic)	CNP 043	112	2	50%	-10	Movable Barrier	102
Concrete lorry mixer	CNP 044	109	2	50%	-5	Movable Barrier	104
Concrete pump, stationary/ lorry mounted	CNP 047	109	1	50%	-10	Movable Barrier	96
Generator, silenced, 75 dB(A) at 7 m	CNP 102	100	1	100%	-15	Noise Enclosure	85
Poker, vibratory, hand-held (electric)	[1]	102	2	50%	-5	Movable Barrier	97
Saw, circular, wood	CNP 201	108	2	100%	-10	Movable Barrier	101
Total SWL, dB (A)							108

PME	TM or other reference	SWL, dB(A)	No. of PME per group	% on time	Screening Effect, dB(A)	Noise Mitigation Measures	Total SWL, dB(A)
Activity 6 - ABWF & E&M Works							
Crane, mobile	EPD- 01516	101	2	80%	-5	Movable Barrier	98
Drill/grinder, hand-held (electric)	CNP 065	98	2	50%	-10	Movable Barrier	88
Dump truck , 5.5 tonne < gross vehicle weight ≤ 38 tonne	[1]	105	2	50%	-5	Movable Barrier	100
Hoist, passenger/ material (electric)	CNP 122	95	2	100%	-5	Movable Barrier	93
Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne	[1]	105	2	50%	-5	Movable Barrier	100
Power pack for hand-held items of PME	CNP 168	100	2	50%	-10	Movable Barrier	90
Total SWL, dB (A)							105
Activity 7 - At-Grade & Elevated Road Works							
Air compressor, air flow > 10m ³ /min and ≤ 30m ³ /min	CNP 002	102	2	100%	-15	Noise Enclosure	90
Breaker, hand-held, mass > 10kg and < 20kg	CNP 024	108	2	50%	-10	Movable Barrier	98
Concrete lorry mixer	CNP 044	109	2	50%	-5	Movable Barrier	104
Concrete pump, stationary/ lorry mounted	CNP 047	109	1	50%	-10	Movable Barrier	96
Crane, mobile	EPD- 01516	101	2	80%	-5	Movable Barrier	98
Dump truck , 5.5 tonne < gross vehicle weight ≤ 38 tonne	[1]	105	2	50%	-5	Movable Barrier	100
Drill rig, rotary type (diesel)	[1]	110	2	50%	-10	Movable Barrier	100
Excavator, wheeled/tracked	EPD- 01230	99	2	80%	-5	Movable Barrier	96
Generator, silenced, 75 dB(A) at 7 m	CNP 102	100	2	69%	-15	Noise Enclosure	86
Welding plant	[2]	78	2	70%	-10	Movable Barrier	69
Lorry, with crane/grab, 5.5 tonne < gross vehicle weight ≤ 38 tonne	[1]	105	2	50%	-5	Movable Barrier	100
Piling, large diameter bored, reverse circulation drill	CNP 166	100	2	50%	-10	Movable Barrier	90
Poker, vibratory, hand-held (electric)	[1]	102	2	50%	-5	Movable Barrier	97
Water pump, submersible (electric)	CNP 283	85	2	100%	-10	Movable Barrier	78
Total SWL, dB (A)							109
Roadworks at South Cargo Area Construction Activities							
Activity 1 - Viaduct Roads							
Air compressor, air flow > 10m ³ /min and ≤ 30m ³ /min	CNP 002	102	2	100%	-15	Noise Enclosure	90
Breaker, hand-held, mass > 10kg and < 20kg	CNP 024	108	1	50%	-10	Movable Barrier	95
Ballast tamper, hand-held (electric)	CNP 029	105	1	50%	-10	Movable Barrier	92
Compactor, vibratory	EPD- 00054	102	1	50%	-5	Movable Barrier	94
Generator, silenced, 75 dB(A) at 7 m	CNP 102	100	1	70%	-15	Noise Enclosure	83
Welding plant	[2]	78	2	70%	-5	Movable Barrier	74
Piling, large diameter bored, reverse circulation drill	CNP 166	100	1	50%	-10	Movable Barrier	87
Road roller	EPD- 00223	99	1	50%	-5	Movable Barrier	91
Water pump, submersible (electric)	CNP 283	85	2	50%	-10	Movable Barrier	75
Total SWL, dB (A)							100
Activity 2 - At-grade Roads							
Air compressor, air flow > 10m ³ /min and ≤ 30m ³ /min	CNP 002	102	2	100%	-15	Noise Enclosure	90
Ballast tamper, hand-held (electric)	CNP 029	105	2	50%	-10	Movable Barrier	95
Generator, silenced, 75 dB(A) at 7 m	CNP 102	100	2	70%	-15	Noise Enclosure	86
Lorry, with crane/grab, 5.5 tonne < gross vehicle weight ≤ 38 tonne	[1]	105	1	50%	-5	Movable Barrier	97
Piling, large diameter bored, reverse circulation drill	CNP 166	100	2	50%	-10	Movable Barrier	90
Road roller	EPD- 00223	99	2	50%	-5	Movable Barrier	94
Water pump, submersible (electric)	CNP 283	85	2	100%	-10	Movable Barrier	78
Total SWL, dB (A)							101

PME	TM or other reference	SWL, dB(A)	No. of PME per group	% on time	Screening Effect, dB(A)	Noise Mitigation Measures	Total SWL, dB(A)
Construction of Intermodal Transfer Terminal (Concurrent Project)							
Activity 1 - Advance Works							
Air compressor, air flow > 10m ³ /min and ≤ 30m ³ /min	CNP 002	102	1	100%	-10	Movable Barrier	92
Breaker, hand-held, mass ≥ 20kg and ≤ 35kg	CNP 025	111	1	50%	-10	Movable Barrier	98
Concrete lorry mixer	CNP 044	109	1	50%	-5	Movable Barrier	101
Crane, mobile	EPD- 01516	101	1	60%	-5	Movable Barrier	94
Dump truck, 5.5 tonne < gross vehicle weight ≤ 38 tonne	[1]	105	2	50%	-5	Movable Barrier	100
Excavator, wheeled/tracked	EPD- 01230	99	1	100%	-5	Movable Barrier	94
Generator, silenced, 75 dB(A) at 7 m	CNP 102	100	1	100%	-15	Noise Enclosure	85
Lorry, with crane/grab, 5.5 tonne < gross vehicle weight ≤ 38 tonne	[1]	105	1	70%	-5	Movable Barrier	98
Poker, vibratory, hand-held (electric)	[1]	102	1	50%	-5	Movable Barrier	94
Total SWL, dB (A)							106
Activity 1a - Roadworks							
Air compressor, air flow > 10m ³ /min and ≤ 30m ³ /min	CNP 002	102	2	100%	-15	Noise Enclosure	90
Asphalt paver	EPD- 00075	106	1	80%	-5	Movable Barrier	100
Breaker, hand-held, mass > 10kg and < 20kg	CNP 024	108	2	50%	-10	Movable Barrier	98
Conveyor belt	CNP 041	90	2	80%			92
Concrete pump, stationary/ lorry mounted	CNP 047	109	2	80%	-10	Movable Barrier	101
Crane, tower (electric)	CNP 049	95	2	80%	-5	Movable Barrier	92
Generator, standard	CNP 101	108	2	80%	-15	Noise Enclosure	95
Crane, mobile	EPD- 01516	101	2	80%	-5	Movable Barrier	98
Compactor, vibratory	CNP 00054	102	1	50%	-5	Movable Barrier	94
Dump truck, 5.5 tonne < gross vehicle weight ≤ 38 tonne	[1]	105	2	50%	-5	Movable Barrier	100
Drill rig, rotary type (diesel)	[1]	110	1	50%	-10	Movable Barrier	97
Excavator, wheeled/tracked	EPD- 01230	99	2	80%	-5	Movable Barrier	96
Generator, silenced, 75 dB(A) at 7 m	CNP 102	100	2	70%	-15	Noise Enclosure	86
Grader	CNP 104	113	1	50%	-5	Movable Barrier	105
Lorry, with crane/grab, 5.5 tonne < gross vehicle weight ≤ 38 tonne	[1]	105	2	50%	-5	Movable Barrier	100
Poker, vibratory, hand-held (electric)	[1]	102	2	50%	-5	Movable Barrier	97
Road roller	CNP 00223	99	2	50%	-5	Movable Barrier	94
Roller, vibratory	CNP 00591	105	1	50%	-5	Movable Barrier	97
Water pump, submersible (electric)	CNP 283	85	2	100%	-10	Movable Barrier	78
Total SWL, dB (A)							111
Activity 1b - BHS							
Air compressor, air flow > 10m ³ /min and ≤ 30m ³ /min	CNP 002	102	2	100%	-15	Noise Enclosure	90
Breaker, hand-held, mass > 10kg and < 20kg	CNP 024	108	2	50%	-10	Movable Barrier	98
Breaker, excavator mounted (hydraulic)	CNP 028	122	2	50%	-10	Movable Barrier	112
Crane, mobile	EPD- 01516	101	1	80%	-5	Movable Barrier	95
Dump truck, 5.5 tonne < gross vehicle weight ≤ 38 tonne	[1]	105	2	50%	-5	Movable Barrier	100
Welding plant	[2]	78	1	70%	-10	Movable Barrier	66
Piling, large diameter bored, reverse circulation drill	CNP 166	100	2	70%	-10	Movable Barrier	91
Water pump, submersible (electric)	CNP 283	85	1	100%	-10	Movable Barrier	75
Total SWL, dB (A)							113
Activity 1c - APM							
Air compressor, air flow > 10m ³ /min and ≤ 30m ³ /min	CNP 002	102	2	100%	-15	Noise Enclosure	90
Breaker, excavator mounted (pneumatic)	CNP 027	122	2	50%	-10	Movable Barrier	112
Chipper, hand-held (pneumatic)	CNP 043	112	1	50%	-10	Movable Barrier	99
Concrete lorry mixer	CNP 044	109	2	50%	-5	Movable Barrier	104
Concrete pump, stationary/ lorry mounted	CNP 047	109	1	50%	-5	Movable Barrier	101
Crane, mobile	EPD- 01516	101	2	50%	-5	Movable Barrier	96
Crane, tower (electric)	CNP 049	95	1	100%	-5	Movable Barrier	90
Concrete burster	[1]	90	1	80%	-10	Movable Barrier	79
Dump truck, 5.5 tonne < gross vehicle weight ≤ 38 tonne	[1]	105	2	50%	-5	Movable Barrier	100
Dump truck, with grab, 5.5 tonne < gross vehicle weight ≤ 38 tonne	[1]	105	1	50%	-5	Movable Barrier	97
Excavator, wheeled/tracked	EPD- 01230	99	2	50%	-5	Movable Barrier	94
Generator, silenced, 75 dB(A) at 7 m	CNP 102	100	2	100%	-15	Noise Enclosure	88
Hoist, passenger/ material (electric)	CNP 122	95	1	100%	-5	Movable Barrier	90
Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne	[1]	105	1	50%	-5	Movable Barrier	97
Poker, vibratory, hand-held (electric)	[1]	102	2	50%	-5	Movable Barrier	97
Rock drill, crawler mounted (hydraulic)	CNP 182	123	1	80%	-10	Movable Barrier	112
Saw, circular, wood	CNP 201	108	1	100%	-10	Movable Barrier	98
Ventilation fan	CNP 241	108	1	100%	-10	Movable Barrier	98
Water pump (electric)	CNP 281	88	2	100%	-10	Movable Barrier	81
Total SWL, dB (A)							116
Activity 2 - Main works							
Air compressor, air flow > 10m ³ /min and ≤ 30m ³ /min	CNP 002	102	2	100%	-15	Noise Enclosure	90
Breaker, hand-held, mass ≥ 20kg and ≤ 35kg	CNP 025	111	2	50%	-10	Movable Barrier	101
Concrete lorry mixer	CNP 044	109	2	50%	-5	Movable Barrier	104
Crane, mobile	EPD- 01516	101	1	60%	-5	Movable Barrier	94
Dump truck, 5.5 tonne < gross vehicle weight ≤ 38 tonne	[1]	105	2	50%	-5	Movable Barrier	100
Drill rig, rotary type (diesel)	[1]	110	1	70%	-10	Movable Barrier	98
Excavator, wheeled/tracked	EPD- 01230	99	2	100%	-5	Movable Barrier	97
Generator, silenced, 75 dB(A) at 7 m	CNP 102	100	2	100%	-15	Noise Enclosure	88
Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne	[1]	105	2	50%	-5	Movable Barrier	100
Lorry, with crane/grab, 5.5 tonne < gross vehicle weight ≤ 38 tonne	[1]	105	1	70%	-5	Movable Barrier	98
Poker, vibratory, hand-held (electric)	[1]	102	2	50%	-5	Movable Barrier	97
Water pump (electric)	CNP 281	88	2	50%	-10	Movable Barrier	78
Total SWL, dB (A)							109

PME	TM or other reference	SWL, dB(A)	No. of PME per group	% on time	Screening Effect, dB(A)	Noise Mitigation Measures	Total SWL, dB(A)
Activity 2a - Bonded Road							
Air compressor, air flow > 10m ³ /min and ≤ 30m ³ /min	CNP 002	102	2	100%	-15	Noise Enclosure	90
Asphalt paver	EPD- 00075	106	1	80%	-5	Movable Barrier	100
Breaker, hand-held, mass > 10kg and < 20kg	CNP 024	108	2	50%	-10	Movable Barrier	98
Ballast tamper, hand-held (electric)	CNP 029	105	2	50%	-10	Movable Barrier	95
Bulldozer, wheeled	CNP QPME	110	1	50%	-5	Movable Barrier	102
Concrete lorry mixer	CNP 044	109	2	50%	-5	Movable Barrier	104
Crane, mobile	EPD- 01516	101	2	80%	-5	Movable Barrier	98
Compactor, vibratory	CNP 00054	102	2	50%	-5	Movable Barrier	97
Dump truck , 5.5 tonne < gross vehicle weight ≤ 38 tonne	[1]	105	2	50%	-5	Movable Barrier	100
Drill rig, rotary type (diesel)	[1]	110	1	50%	-10	Movable Barrier	97
Excavator, wheeled/tracked	EPD- 01230	99	2	80%	-5	Movable Barrier	96
Generator, silenced, 75 dB(A) at 7 m	CNP 102	100	2	69%	-15	Noise Enclosure	86
Grader	CNP 104	113	1	50%	-5	Movable Barrier	105
Lorry, with crane/grab, 5.5 tonne < gross vehicle weight ≤ 38 tonne	[1]	105	2	50%	-5	Movable Barrier	100
Piling, large diameter bored, reverse circulation drill	CNP 166	100	2	50%	-10	Movable Barrier	90
Poker, vibratory, hand-held (electric)	[1]	102	2	50%	-5	Movable Barrier	97
Road roller	CNP 00223	99	1	50%	-5	Movable Barrier	91
Roller, vibratory	CNP 00591	105	1	50%	-5	Movable Barrier	97
Water pump, submersible (electric)	CNP 283	85	2	100%	-10	Movable Barrier	78
Total SWL, dB (A)							112
Activity 2b - BRH & coach hall							
Air compressor, air flow > 10m ³ /min and ≤ 30m ³ /min	CNP 002	102	2	100%	-15	Noise Enclosure	90
Bar bender and cutter (electric)	CNP 021	90	2	100%	-10	Movable Barrier	83
Breaker, hand-held, mass > 10kg and < 20kg	CNP 024	108	2	50%	-10	Movable Barrier	98
Chipper, hand-held (pneumatic)	CNP 043	112	2	50%	-10	Movable Barrier	102
Concrete lorry mixer	CNP 044	109	2	50%	-5	Movable Barrier	104
Concrete pump, stationary/ lorry mounted	CNP 047	109	2	100%	-10	Movable Barrier	102
Crane, mobile	EPD- 01516	101	2	50%	-5	Movable Barrier	96
Crane, tower (electric)	CNP 049	95	2	100%	-5	Movable Barrier	93
Dump truck , 5.5 tonne < gross vehicle weight ≤ 38 tonne	[1]	105	2	50%	-5	Movable Barrier	100
Dump truck, with grab, 5.5 tonne < gross vehicle weight ≤ 38 tonne	[1]	105	1	50%	-5	Movable Barrier	97
Drill rig, rotary type (diesel)	[1]	110	1	50%	-10	Movable Barrier	97
Excavator, wheeled/tracked	EPD- 01230	99	2	70%	-5	Movable Barrier	95
Excavator, mini-robot mounted	[1]	94	1	50%	-5	Movable Barrier	86
Generator, silenced, 75 dB(A) at 7 m	CNP 102	100	2	50%	-15	Noise Enclosure	85
Grout mixer	[1]	90	1	50%	-10	Movable Barrier	77
Grout pump	[1]	105	1	50%	-10	Movable Barrier	92
Hoist, passenger/ material (electric)	CNP 122	95	1	100%	-5	Movable Barrier	90
Lorry, with crane/grab, 5.5 tonne < gross vehicle weight ≤ 38 tonne	[1]	105	2	50%	-5	Movable Barrier	100
Poker, vibratory, hand-held (electric)	[1]	102	2	50%	-5	Movable Barrier	97
Saw, circular, wood	CNP 201	108	2	100%	-10	Movable Barrier	101
Ventilation fan	CNP 241	108	2	100%	-10	Movable Barrier	101
Water pump (electric)	CNP 281	88	2	50%	-10	Movable Barrier	78
Total SWL, dB (A)							111
Activity 2c - Skypier (A&A works)							
Crane, mobile	EPD- 01516	101	2	80%	-5	Movable Barrier	98
Drill/grinder, hand-held (electric)	CNP 065	98	2	50%	-10	Movable Barrier	88
Dump truck, with grab, 5.5 tonne < gross vehicle weight ≤ 38 tonne	[1]	105	2	50%	-5	Movable Barrier	100
Hoist, passenger/ material (electric)	CNP 122	95	2	100%	-5	Movable Barrier	93
Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne	[1]	105	2	50%	-5	Movable Barrier	100
Power pack for hand-held items of PME	CNP 168	100	2	50%	-10	Movable Barrier	90
Total SWL, dB (A)							105
Activity 2d - APM tunnel							
Crane, mobile	EPD- 01516	101	2	80%	-5	Movable Barrier	98
Drill/grinder, hand-held (electric)	CNP 065	98	2	50%	-10	Movable Barrier	88
Dump truck, with grab, 5.5 tonne < gross vehicle weight ≤ 38 tonne	[1]	105	2	50%	-5	Movable Barrier	100
Hoist, passenger/ material (electric)	CNP 122	95	2	100%	-5	Movable Barrier	93
Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne	[1]	105	2	50%	-5	Movable Barrier	100
Power pack for hand-held items of PME	CNP 168	100	2	50%	-10	Movable Barrier	90
Total SWL, dB (A)							105

PME	TM or other reference	SWL, dB(A)	No. of PME per group	% on time	Screening Effect, dB(A)	Noise Mitigation Measures	Total SWL, dB(A)
Construction of Other Airport Facilities Related Works (Concurrent Project)							
Activity 1 - Site Formation							
Air compressor, air flow > 10m ³ /min and ≤ 30m ³ /min	CNP 002	102	1	100%	-15	Noise Enclosure	87
Breaker, hand-held, mass ≥ 20kg and ≤ 35kg	CNP 025	111	1	50%	-10	Movable Barrier	98
Concrete lorry mixer	CNP 044	109	1	50%	-5	Movable Barrier	101
Crane, mobile	EPD- 01516	101	1	60%	-5	Movable Barrier	94
Dump truck, 5.5 tonne < gross vehicle weight ≤ 38 tonne	[1]	105	2	50%	-5	Movable Barrier	100
Excavator, wheeled/tracked	EPD- 01230	99	1	100%	-5	Movable Barrier	94
Generator, silenced, 75 dB(A) at 7 m	CNP 102	100	1	100%	-15	Noise Enclosure	85
Lorry, with crane/grab, gross vehicle weight > 38 tonne	[1]	112	1	70%	-5	Movable Barrier	105
Poker, vibratory, hand-held	CNP 170	113	1	50%	-5	Movable Barrier	105
Total SWL, dB (A)							110
Activity 2 - Foundation & building works							
Air compressor, air flow > 10m ³ /min and ≤ 30m ³ /min	CNP 002	102	2	100%	-15	Enclosure	90
Bar bender and cutter (electric)	CNP 021	90	2	100%	-10	Movable Barrier	83
Breaker, hand-held, mass ≥ 20kg and ≤ 35kg	CNP 025	111	2	50%	-10	Movable Barrier	101
Chipper, hand-held (pneumatic)	CNP 043	112	2	50%	-10	Movable Barrier	102
Concrete lorry mixer	CNP 044	109	2	50%	-5	Movable Barrier	104
Concrete pump, stationary/ lorry mounted	CNP 047	109	2	100%	-10	Movable Barrier	102
Crane, mobile	EPD- 01516	101	2	50%	-5	Movable Barrier	96
Crane, tower (electric)	CNP 049	95	2	100%	-5	Movable Barrier	93
Concrete burster	[1]	90	2	80%	-10	Movable Barrier	82
Dump truck, with grab, 5.5 tonne < gross vehicle weight ≤ 38 tonne	[1]	105	2	50%	-5	Movable Barrier	100
Excavator, wheeled/tracked	EPD- 01230	99	2	50%	-5	Movable Barrier	94
Generator, silenced, 75 dB(A) at 7 m	CNP 102	100	2	50%	-15	Enclosure	85
Welding plant	[2]	78	2	70%	-10	Movable Barrier	69
Grout mixer	[1]	90	2	50%	-10	Movable Barrier	80
Grout pump	[1]	105	2	50%	-10	Movable Barrier	95
Hoist, passenger/ material (electric)	CNP 122	95	2	100%	-5	Movable Barrier	93
Lorry, with crane/grab, 5.5 tonne < gross vehicle weight ≤ 38 tonne	[1]	105	2	50%	-5	Movable Barrier	100
Poker, vibratory, hand-held (electric)	[1]	102	2	50%	-5	Movable Barrier	97
Saw, circular, wood	CNP 201	108	2	100%	-10	Movable Barrier	101
Ventilation fan	CNP 241	108	2	100%	-10	Movable Barrier	101
Water pump (electric)	CNP 281	88	2	50%	-10	Movable Barrier	78
Water pump, submersible (electric)	CNP 283	85	2	100%	-10	Movable Barrier	78
Total SWL, dB (A)							111

Note: [1] Extracted from EPD document namely, "Sound Power Levels of Other Commonly Used PME"

http://www.epd.gov.hk/epd/english/application_for_licences/guidance/files/OtherSWLe.pdf

[2] SWL is referred to the Appendix 5.1 of approved EIA Report of Hong Kong Section of Guangzhou - Shenzhen - Hong Kong Express Rail Link (AEIAR-143/2009).

PME	TM or other reference	SWL, dB(A)	No. of PME per group	% on time	Screening Effect, dB(A)	Noise Mitigation Measures	Total SWL, dB(A)
Infrastructure Construction Activities							
Activity 1 - Site Grading & General Excavation							
Dump truck, 5.5 tonne < gross vehicle weight ≤ 38 tonne	[1]	105	2	50%	-5	Movable Barrier	100
Road roller	EPD- 00223	99	2	80%	-5	Movable Barrier	96
Derrick barge	CNP 061	104	2	80%			106
Roller, vibratory	EPD- 00591	105	2	80%	-5	Movable Barrier	102
Excavator, wheeled/tracked	EPD- 01230	99	2	80%	-5	Movable Barrier	96
Total SWL, dB (A)							109
Activity 2 - General Site Work (Including Utility & Drainage Systems)							
Compactor, vibratory	EPD- 00054	102	2	80%	-5	Movable Barrier	99
Lorry, with crane/grab, 5.5 tonne < gross vehicle weight ≤ 38 tonne	[1]	105	2	80%	-5	Movable Barrier	102
Roller, vibratory	EPD- 00591	105	1	80%	-5	Movable Barrier	99
Dump truck, 5.5 tonne < gross vehicle weight ≤ 38 tonne	[1]	105	2	50%	-5	Movable Barrier	100
Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne	[1]	105	2	80%	-5	Movable Barrier	102
Generator, portable	[1]	100	2	80%	-10	Movable Barrier	92
Light goods vehicle, gross vehicle weight ≤ 5.5 tonne	[1]	101	1	80%	-5	Movable Barrier	95
Water pump (electric)	CNP 281	88	2	100%	-10	Movable Barrier	81
Total SWL, dB (A)							108
Activity 3a - Airfield Paving Flexible							
Dump truck, 5.5 tonne < gross vehicle weight ≤ 38 tonne	[1]	105	1	50%	-5	Movable Barrier	97
Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne	[1]	105	2	80%	-5	Movable Barrier	102
Asphalt paver	EPD- 00075	106	2	80%	-5	Movable Barrier	103
Roller, vibratory	EPD- 00591	105	2	80%	-5	Movable Barrier	102
Road sweeper	[1]	107	2	80%	-5	Movable Barrier	104
Generator, portable	[1]	100	1	80%	-10	Movable Barrier	89
Road roller	EPD- 00223	99	2	80%	-5	Movable Barrier	96
Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne	[1]	105	1	80%	-5	Movable Barrier	99
Total SWL, dB (A)							110
Activity 3b - Airfield Paving Rigid							
Dump truck, 5.5 tonne < gross vehicle weight ≤ 38 tonne	[1]	105	1	50%	-5	Movable Barrier	97
Concrete lorry mixer	CNP 044	109	2	80%	-5	Movable Barrier	106
Concrete paver	CNP 004	109	1	80%	-5	Movable Barrier	103
Road sweeper	[1]	107	2	80%	-5	Movable Barrier	104
Generator, portable	[1]	100	1	80%	-10	Movable Barrier	89
Saw/groover, concrete (petrol)	CNP 203	115	2	80%	-10	Movable Barrier	107
Total SWL, dB (A)							111
Activity 4 - APM & BHS Tunnel Construction							
Dump truck, 5.5 tonne < gross vehicle weight ≤ 38 tonne	[1]	105	2	50%	-5	Movable Barrier	100
Concrete pump, stationary/ lorry mounted	CNP 047	109	1	80%	-10	Movable Barrier	98
Lorry, with crane/grab, 5.5 tonne < gross vehicle weight ≤ 38 tonne	[1]	105	1	80%	-5	Movable Barrier	99
Generator, portable	[1]	100	2	80%	-10	Movable Barrier	92
Water pump (electric)	CNP 281	88	2	100%	-10	Movable Barrier	81
Total SWL, dB (A)							104
Activity 5 - Vehicular Tunnel Construction							
Dump truck, 5.5 tonne < gross vehicle weight ≤ 38 tonne	[1]	105	2	50%	-5	Movable Barrier	100
Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne	[1]	105	2	80%	-5	Movable Barrier	102
Concrete pump, stationary/ lorry mounted	CNP 047	109	1	80%	-10	Movable Barrier	98
Lorry, with crane/grab, 5.5 tonne < gross vehicle weight ≤ 38 tonne	[1]	105	1	80%	-5	Movable Barrier	99
Generator, portable	[1]	100	2	100%	-10	Movable Barrier	93
Water pump (electric)	CNP 281	88	2	100%	-10	Movable Barrier	81
Total SWL, dB (A)							106

PME	TM or other reference	SWL, dB(A)	No. of PME per group	% on time	Screening Effect, dB(A)	Noise Mitigation Measures	Total SWL, dB(A)
Activity 6a - Terminal Building Foundations & Basement							
Dump truck , 5.5 tonne < gross vehicle weight ≤ 38 tonne	[1]	105	2	50%	-5	Movable Barrier	100
Lorry, with crane/grab, 5.5 tonne < gross vehicle weight ≤ 38 tonne	[1]	105	2	80%	-5	Movable Barrier	102
Excavator, wheeled/tracked	EPD- 01230	99	2	80%	-5	Movable Barrier	96
Generator, portable	[1]	100	2	100%	-10	Movable Barrier	93
Light goods vehicle, gross vehicle weight ≤ 5.5 tonne	[1]	101	2	80%	-5	Movable Barrier	98
Crane, mobile	EPD- 01516	101	2	80%	-5	Movable Barrier	98
Water pump (electric)	CNP 281	88	2	100%	-10	Movable Barrier	81
Total SWL, dB (A)							106
Activity 6b - Terminal Building Structure (Concrete)							
Dump truck , 5.5 tonne < gross vehicle weight ≤ 38 tonne	[1]	105	2	50%	-5	Movable Barrier	100
Derrick barge	CNP 061	104	2	80%			106
Compactor, vibratory	CNP 00054	102	2	80%	-5	Movable Barrier	99
Concrete pump, stationary/ lorry mounted	CNP 047	109	2	80%	-10	Movable Barrier	101
Lorry, with crane/grab, 5.5 tonne < gross vehicle weight ≤ 38 tonne	[1]	105	2	80%	-5	Movable Barrier	102
Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne	[1]	105	2	80%	-5	Movable Barrier	102
Generator, portable	[1]	100	2	100%	-10	Movable Barrier	93
Light goods vehicle, gross vehicle weight ≤ 5.5 tonne	[1]	101	2	80%	-5	Movable Barrier	98
Crane, mobile	EPD- 01516	101	2	80%	-5	Movable Barrier	98
Hoist, passenger/ material (electric)	CNP 122	95	2	80%	-5	Movable Barrier	92
Total SWL, dB (A)							111
Activity 6c - Cladding and Roof							
Compactor, vibratory	CNP 00054	102	2	80%	-5	Movable Barrier	99
Lorry, with crane/grab, 5.5 tonne < gross vehicle weight ≤ 38 tonne	[1]	105	2	80%	-5	Movable Barrier	102
Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne	[1]	105	2	80%	-5	Movable Barrier	102
Generator, portable	[1]	100	2	80%	-10	Movable Barrier	92
Hoist, passenger/ material (electric)	CNP 122	95	2	80%	-5	Movable Barrier	92
Light goods vehicle, gross vehicle weight ≤ 5.5 tonne	[1]	101	2	80%	-5	Movable Barrier	98
Crane, mobile	EPD- 01516	101	2	80%	-5	Movable Barrier	98
Hoist, passenger/ material (electric)	CNP 122	95	2	80%	-5	Movable Barrier	92
Total SWL, dB (A)							108
Activity 7 - Ancillary Support Area Building Construction							
Dump truck , 5.5 tonne < gross vehicle weight ≤ 38 tonne	[1]	105	2	50%	-5	Movable Barrier	100
Compactor, vibratory	EPD- 00054	102	2	80%	-5	Movable Barrier	99
Concrete lorry mixer	CNP 044	109	2	80%	-5	Movable Barrier	106
Concrete pump, stationary/ lorry mounted	CNP 047	109	1	80%	-10	Movable Barrier	98
Lorry, with crane/grab, 5.5 tonne < gross vehicle weight ≤ 38 tonne	[1]	105	2	80%	-5	Movable Barrier	102
Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne	[1]	105	2	80%	-5	Movable Barrier	102
Generator, portable	[1]	100	2	100%	-10	Movable Barrier	93
Hoist, passenger/ material (electric)	CNP 122	95	2	80%	-5	Movable Barrier	92
Crane, mobile	EPD- 01516	101	2	80%	-5	Movable Barrier	98
Total SWL, dB (A)							110
Activity 8 - Fit out							
Dump truck , 5.5 tonne < gross vehicle weight ≤ 38 tonne	[1]	105	2	50%	-5	Movable Barrier	100
Compactor, vibratory	EPD- 00054	102	2	80%	-5	Movable Barrier	99
Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne	[1]	105	2	80%	-5	Movable Barrier	102
Generator, portable	[1]	100	2	100%	-10	Movable Barrier	93
Hoist, passenger/ material (electric)	CNP 122	95	2	80%	-5	Movable Barrier	92
Light goods vehicle, gross vehicle weight ≤ 5.5 tonne	[1]	101	2	80%	-5	Movable Barrier	98
Hoist, passenger/ material (electric)	CNP 122	95	2	80%	-5	Movable Barrier	92
Total SWL, dB (A)							107
Activity 9 - Roads							
Compactor, vibratory	EPD- 00054	102	2	80%	-5	Movable Barrier	99
Dump truck , 5.5 tonne < gross vehicle weight ≤ 38 tonne	[1]	105	2	50%	-5	Movable Barrier	100
Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne	[1]	105	2	80%	-5	Movable Barrier	102
Generator, portable	[1]	100	2	100%	-10	Movable Barrier	93
Road roller	CNP 185	108	1	80%	-5	Movable Barrier	102
Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne	[1]	105	1	80%	-5	Movable Barrier	99
Total SWL, dB (A)							108
Activity 10 - Airfield Planning							
450E Backhoe / JCB	CNP 081	112	2	80%	-5	Movable Barrier	109
Dump truck , 5.5 tonne < gross vehicle weight ≤ 38 tonne	[1]	105	1	50%	-5	Movable Barrier	97
Road planer or miller	CNP 184	111	1	80%	-5	Movable Barrier	105
Total SWL, dB (A)							111

PME	TM or other reference	SWL, dB(A)	No. of PME per group	% on time	Screening Effect, dB(A)	Noise Mitigation Measures	Total SWL, dB(A)
Activity 11 - APM Depot							
Dump truck , 5.5 tonne < gross vehicle weight ≤ 38 tonne	[1]	105	2	50%	-5	Movable Barrier	100
Lorry, with crane/grab, 5.5 tonne < gross vehicle weight ≤ 38 tonne	[1]	105	2	80%	-5	Movable Barrier	102
Generator, portable	[1]	100	2	100%	-10	Movable Barrier	93
Crane, mobile	EPD- 01516	101	2	80%	-5	Movable Barrier	98
Water pump (electric)	CNP 281	88	2	100%	-10	Movable Barrier	81
Hoist, passenger/ material (electric)	CNP 122	95	2	80%	-5	Movable Barrier	92
Total SWL, dB (A)							106
Construction of North Commercial District (Concurrent Project)							
Activity 1 - Site Formation for Phase 1							
Air compressor, air flow > 10m3/min and ≤ 30m3/min	CNP 002	102	1	100%	-15	Enclosure	87
Breaker, hand-held, mass ≥ 20kg and ≤ 35kg	CNP 025	111	1	50%	-10	Movable Barrier	98
Concrete lorry mixer	CNP 044	109	1	50%	-5	Movable Barrier	101
Crane, mobile	EPD- 01516	101	1	60%	-5	Movable Barrier	94
Dump truck , 5.5 tonne < gross vehicle weight ≤ 38 tonne	[1]	105	2	50%	-5	Movable Barrier	100
Excavator, wheeled/tracked	EPD- 01230	99	1	100%	-5	Movable Barrier	94
Generator, silenced, 75 dB(A) at 7 m	CNP 102	100	1	100%	-15	Enclosure	85
Lorry, with crane/grab, 5.5 tonne < gross vehicle weight ≤ 38 tonne	[1]	105	1	70%	-5	Movable Barrier	98
Poker, vibratory, hand-held	CNP 170	113	1	50%	-5	Movable Barrier	105
Total SWL, dB (A)							109
Activity 2 - Roadworks							
Air compressor, air flow > 10m3/min and ≤ 30m3/min	CNP 002	102	2	100%	-15	Enclosure	90
Asphalt paver	EPD- 00075	106	1	80%	-5	Movable Barrier	100
Breaker, hand-held, mass > 10kg and < 20kg	CNP 024	108	2	50%	-10	Movable Barrier	98
Ballast tamper, hand-held (electric)	CNP 029	105	1	40%	-10	Movable Barrier	91
Bulldozer, wheeled	EPD- QPME	110	1	50%	-5	Movable Barrier	102
Concrete lorry mixer	CNP 044	109	2	50%	-5	Movable Barrier	104
Crane, mobile	EPD- 01516	101	2	80%	-10	Movable Barrier	93
Compactor, vibratory	CNP 00054	102	1	50%	-10	Movable Barrier	89
Dump truck , 5.5 tonne < gross vehicle weight ≤ 38 tonne	[1]	105	2	50%	-5	Movable Barrier	100
Drill rig, rotary type (diesel)	[1]	110	1	50%	-10	Movable Barrier	97
Excavator, wheeled/tracked	EPD- 01230	99	2	80%	-10	Movable Barrier	91
Generator, silenced, 75 dB(A) at 7 m	CNP 102	100	2	69%	-15	Enclosure	86
Grader	CNP 104	113	1	50%	-10	Movable Barrier	100
Lorry, with crane/grab, 5.5 tonne < gross vehicle weight ≤ 38 tonne	[1]	105	2	50%	-5	Movable Barrier	100
Poker, vibratory, hand-held (electric)	[1]	102	2	50%	-10	Movable Barrier	92
Road roller	CNP 00223	99	2	50%	-5	Movable Barrier	94
Roller, vibratory	CNP 00591	105	1	50%	-5	Movable Barrier	97
Water pump, submersible (electric)	CNP 283	85	2	100%	-10	Movable Barrier	78
Total SWL, dB (A)							110
Activity 3 - Foundation & building works for Phase 1							
Air compressor, air flow > 10m3/min and ≤ 30m3/min	CNP 002	102	2	100%	-15	Enclosure	90
Bar bender and cutter (electric)	CNP 021	90	2	100%	-10	Movable Barrier	83
Breaker, hand-held, mass ≥ 20kg and ≤ 35kg	CNP 025	111	2	50%	-10	Movable Barrier	101
Chipper, hand-held (pneumatic)	CNP 043	112	2	50%	-10	Movable Barrier	102
Concrete pump, stationary/ lorry mounted	CNP 047	109	2	100%	-10	Movable Barrier	102
Crane, mobile	EPD- 01516	101	2	50%	-10	Movable Barrier	91
Crane, tower (electric)	CNP 049	95	2	100%	-10	Movable Barrier	88
Concrete burster	[1]	90	2	80%	-10	Movable Barrier	82
Dump truck , 5.5 tonne < gross vehicle weight ≤ 38 tonne	[1]	105	2	50%	-5	Movable Barrier	100
Dump truck, with grab, 5.5 tonne < gross vehicle weight ≤ 38 tonne	[1]	105	2	50%	-5	Movable Barrier	100
Excavator, wheeled/tracked	EPD- 01230	99	2	50%	-10	Movable Barrier	89
Generator, silenced, 75 dB(A) at 7 m	CNP 102	100	2	50%	-15	Enclosure	85
Welding plant	[2]	78	2	70%	-10	Movable Barrier	69
Grout mixer	[1]	90	2	50%	-10	Movable Barrier	80
Grout pump	[1]	105	2	50%	-10	Movable Barrier	95
Hoist, passenger/ material (electric)	CNP 122	95	2	100%	-10	Movable Barrier	88
Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne	[1]	105	2	50%	-5	Movable Barrier	100
Lorry, with crane/grab, 5.5 tonne < gross vehicle weight ≤ 38 tonne	[1]	105	2	50%	-5	Movable Barrier	100
Poker, vibratory, hand-held (electric)	[1]	102	2	50%	-10	Movable Barrier	92
Saw, circular, wood	CNP 201	108	2	100%	-10	Movable Barrier	101
Ventilation fan	CNP 241	108	2	100%	-10	Movable Barrier	101
Water pump (electric)	CNP 281	88	2	50%	-10	Movable Barrier	78
Water pump, submersible (electric)	CNP 283	85	2	100%	-10	Movable Barrier	78
Total SWL, dB (A)							111

PME	TM or other reference	SWL, dB(A)	No. of PME per group	% on time	Screening Effect, dB(A)	Noise Mitigation Measures	Total SWL, dB(A)
Activity 4 - Site Formation for Phase 2							
Air compressor, air flow > 10m ³ /min and ≤ 30m ³ /min	CNP 002	102	1	100%	-15	Enclosure	87
Breaker, hand-held, mass ≥ 20kg and ≤ 35kg	CNP 025	111	1	50%	-10	Movable Barrier	98
Concrete lorry mixer	CNP 044	109	1	50%	-5	Movable Barrier	101
Crane, mobile	EPD- 01516	101	1	60%	-5	Movable Barrier	94
Dump truck, 5.5 tonne < gross vehicle weight ≤ 38 tonne	[1]	105	2	50%	-5	Movable Barrier	100
Excavator, wheeled/tracked	EPD- 01230	99	1	100%	-5	Movable Barrier	94
Generator, silenced, 75 dB(A) at 7 m	CNP 102	100	1	100%	-15	Enclosure	85
Lorry, with crane/grab, 5.5 tonne < gross vehicle weight ≤ 38 tonne	[1]	105	1	70%	-5	Movable Barrier	98
Poker, vibratory, hand-held (electric)	[1]	102	1	50%	-5	Movable Barrier	94
Total SWL, dB (A)							106
Activity 5 - Foundation & building works for Phase 2							
Air compressor, air flow > 10m ³ /min and ≤ 30m ³ /min	CNP 002	102	2	100%	-15	Enclosure	90
Bar bender and cutter (electric)	CNP 021	90	2	100%	-10	Movable Barrier	83
Breaker, hand-held, mass ≥ 20kg and ≤ 35kg	CNP 025	111	2	50%	-10	Movable Barrier	101
Chipper, hand-held (pneumatic)	CNP 043	112	2	50%	-10	Movable Barrier	102
Concrete pump, stationary/ lorry mounted	CNP 047	109	2	100%	-10	Movable Barrier	102
Crane, mobile	EPD- 01516	101	2	50%	-5	Movable Barrier	96
Crane, tower (electric)	CNP 049	95	2	100%	-10	Movable Barrier	88
Concrete burster	[1]	90	2	80%	-10	Movable Barrier	82
Dump truck, 5.5 tonne < gross vehicle weight ≤ 38 tonne	[1]	105	2	50%	-5	Movable Barrier	100
Dump truck, with grab, 5.5 tonne < gross vehicle weight ≤ 38 tonne	[1]	105	2	50%	-5	Movable Barrier	100
Excavator, wheeled/tracked	EPD- 01230	99	2	50%	-5	Movable Barrier	94
Generator, silenced, 75 dB(A) at 7 m	CNP 102	100	2	50%	-15	Enclosure	85
Welding plant	[2]	78	2	70%	-10	Movable Barrier	69
Grout mixer	[1]	90	2	50%	-10	Movable Barrier	80
Grout pump	[1]	105	2	50%	-10	Movable Barrier	95
Hoist, passenger/ material (electric)	CNP 122	95	2	100%	-5	Movable Barrier	93
Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne	[1]	105	2	50%	-5	Movable Barrier	100
Lorry, with crane/grab, 5.5 tonne < gross vehicle weight ≤ 38 tonne	[1]	105	2	50%	-5	Movable Barrier	100
Poker, vibratory, hand-held (electric)	[1]	102	2	50%	-5	Movable Barrier	97
Saw, circular, wood	CNP 201	108	2	100%	-10	Movable Barrier	101
Ventilation fan	CNP 241	108	2	100%	-10	Movable Barrier	101
Water pump (electric)	CNP 281	88	2	50%	-10	Movable Barrier	78
Water pump, submersible (electric)	CNP 283	85	2	100%	-10	Movable Barrier	78
Total SWL, dB (A)							111

Note: [1] Extracted from EPD document namely, "Sound Power Levels of Other Commonly Used PME"

http://www.epd.gov.hk/epd/english/application_for_licences/guidance/files/OtherSWLe.pdf

[2] SWL is referred to the Appendix 5.1 of approved EIA Report of Hong Kong Section of Guangzhou - Shenzhen - Hong Kong Express Rail Link (AEIAR-143/2009).

Noise Sensitive Receiver						2014				2015				2016				2017				2018			
TC-1 - Seaview Crescent Block1	SWL	Dist.(m) ¹	DC ²	FC ³	CNL, dB(A)	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Advanced Works																									
Activity 1 - Aviation Fuel Pipeline Diversion	115	4500	81	3	37							37	37	37	37	37									
Activity 2 - Power Cable Diversion	115	4500	81	3	37							37	37	37	37										
Land Formation Construction Activities																									
Activity 3 - Sand Blanket Laying	106	4040	80	3	29								37	32	32	32	32	29	32	32	29				
Activity 4 - Steel Cell	113	4040	80	3	36									36	36	36									
Activity 5a - Ground Treatment by DCM Barge	115	4040	80	3	38								41	41	41	41	41	38	41	41	41	41	41	41	43
Activity 5b - Ground Treatment by PVD Barge	113	4040	80	3	36								39	39	39	39	39	39	36	39	39	39	39		
Activity 5c - Ground Treatment by Stone Column (Water Based)	116	4040	80	3	39								42	39	42	42	42	39	39						
Activity 5d - Ground Treatment by Stone Column (Land Based)	111	4040	80	3	34												37	37	37						
Activity 5e - Ground Treatment by Sand Drains Barge	116	4040	80	3	39								39	39	42	42	42	39	39	42	42	42			
Activity 6 - Seawall Construction	111	4040	80	3	34									37	37	37	37	37	37	37	37	37	37	37	37
Activity 7 - Marine Sand Filling	106	4040	80	3	29										29	32	32	32	32	32	32	32	32	34	29
Activity 8a - Filling Above Water (Public Fill)	108	4040	80	3	31												34	34	34	34	34	34	34	38	39
Activity 8b - Filling Above Water (Sand Fill)	109	4040	80	3	32											35	35	35	35	35	35	35	32	32	
Activity 8c - Compaction	100	4040	80	3	23												26	26	26	26	26	26	26	31	34
Activity 9a - Placement of Surcharge	107	4040	80	3	30													33	33	33	33	33	33	38	38
Activity 9b - Removal of Surcharge	106	4040	80	3	29																29	29	32	37	43
Noise Impact, dB(A)												40	42	47	48	48	48	48	47	47	47	47	47	44	46
Noise Sensitive Receiver						2019				2020				2021				2022				2023			
TC-1 - Seaview Crescent Block1	SWL	Dist.(m) ¹	DC ²	FC ³	CNL, dB(A)	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Land Formation Construction Activities																									
Activity 3 - Sand Blanket Laying	106	4040	80	3	29										32	32									
Activity 4 - Steel Cell	113	4040	80	3	36																				
Activity 5a - Ground Treatment by DCM Barge	115	4040	80	3	38										38	38									
Activity 5b - Ground Treatment by PVD Barge	113	4040	80	3	36											36									
Activity 5c - Ground Treatment by Stone Column (Water Based)	116	4040	80	3	39																				
Activity 5d - Ground Treatment by Stone Column (Land Based)	111	4040	80	3	34																				
Activity 5e - Ground Treatment by Sand Drains Barge	116	4040	80	3	39												39	39							
Activity 6 - Seawall Construction	111	4040	80	3	34												34	34							
Activity 7 - Marine Sand Filling	106	4040	80	3	29													32	32						
Activity 8a - Filling Above Water (Public Fill)	108	4040	80	3	31					36												31	31		
Activity 8b - Filling Above Water (Sand Fill)	109	4040	80	3	32																	32	32		
Activity 8c - Compaction	100	4040	80	3	23					35												23	23		
Activity 9a - Placement of Surcharge	107	4040	80	3	30					39	39	35										33	33		
Activity 9b - Removal of Surcharge	106	4040	80	3	29					34	39	43	38	38	36	37	29								
Noise Impact, dB(A)						42	42	44	38	38	36	37	29			43	44	38	37	33	29				

Remarks:

1. Slant distance is adopted for the construction noise assessment
2. Distance correction in dB(A)
3. Facade correction in dB(A)
4. Predicted Noise Levels = CNL + 10 log (No. of group of PMEs)

Bold figures denote exceedance of relevant noise criteria

Noise Sensitive Receiver						2014				2015				2016				2017				2018				
TC-1 - Seaview Crescent Block1	SWL	Dist.(m) ¹	DC ²	FC ³	CNL, dB(A)	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	
Terminal 2 & Roadworks Construction Activities																										
Activity 1 - Advance Works for T2 Expansion	108	2200	75	3	36									36	36	36	36	36	36	36	36	36	36	36	36	
Activity 2 - Piling and D-wall	108	2200	75	3	36															36	36	36	36			
Activity 3 - AIS / BHS Sub-Structure	110	2200	75	3	38																	38	38	38		
Activity 4 - Superstructure	109	2200	75	3	37																	37	37	37		
Activity 5 - Existing Structural Modification	108	2200	75	3	36																					
Activity 6 - ABWF & E&M Works	105	2200	75	3	33																					
Activity 7 - At-Grade & Elevated Road Works	109	2200	75	3	37															37	37	37	37	37	37	
Roadworks at South Cargo Area Construction Activities																										
Activity 1 - Viaduct Roads	100	950	68	3	35															35	35	35	35	35	35	
Activity 2 - At-grade Roads	101	950	68	3	36															36	36	36	36	36	36	
Construction of Intermodal Transfer Terminal (Concurrent Project)																										
Activity 1 - Advance Works	106	2400	76	3	33			33	33																	
Activity 1a - Roadworks	111	2400	76	3	38			38	38	38																
Activity 1b - BHS	113	2400	76	3	40			40	40	40	40			40	40											
Activity 1c - APM	116	2400	76	3	43			43	43	43	43															
Activity 2 - Main works	109	2400	76	3	36					36	36	36														
Activity 2a - Bonded Road	112	2400	76	3	39									39	39	39	39	39								
Activity 2b - BRH & coach hall	111	2400	76	3	38					38	38	38	38	38	38	38	38	38	38	38	38					
Activity 2c - Skypier (A&A works)	105	2400	76	3	32									32	32	32	32	32	32	32	32	32	32	32	32	
Activity 2d - APM tunnel	105	2400	76	3	32									32	32	32	32	32	32	32	32	32	32	32	32	
Construction of Other Airport Facilities Related Works (Concurrent Project)																										
Activity 1 - Site Formation	110	2700	77	3	36									36	36											
Activity 2 - Foundation & building works	111	2700	77	3	37															37	37	37	37	37	37	
Noise Impact, dB(A)								39	46	46	47	47	43	45	45	44	44	44	44	44	44	44	44	44	45	45
Noise Sensitive Receiver						2019				2020				2021				2022				2023				
TC-1 - Seaview Crescent Block1	SWL	Dist.(m) ¹	DC ²	FC ³	CNL, dB(A)	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	
Terminal 2 & Roadworks Construction Activities																										
Activity 1 - Advance Works for T2 Expansion	108	2200	75	3	36	36	36																			
Activity 2 - Piling and D-wall	108	2200	75	3	36																					
Activity 3 - AIS / BHS Sub-Structure	110	2200	75	3	38	38	38	38	38	38	38															
Activity 4 - Superstructure	109	2200	75	3	37	37	37	37	37	37	37	37	37	37	37											
Activity 5 - Existing Structural Modification	108	2200	75	3	36			36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	
Activity 6 - ABWF & E&M Works	105	2200	75	3	33			33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	
Activity 7 - At-Grade & Elevated Road Works	109	2200	75	3	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	
Roadworks at South Cargo Area Construction Activities																										
Activity 1 - Viaduct Roads	100	950	68	3	35	35	35	35																		
Activity 2 - At-grade Roads	101	950	68	3	36																					
Construction of Other Airport Facilities Related Works (Concurrent Project)																										
Activity 1 - Site Formation	110	2700	77	3	36																					
Activity 2 - Foundation & building works	111	2700	77	3	37	37	37	37	37																	
Noise Impact, dB(A)						45	45	45	44	43	43	42	42	42	42	40	40	40	40	40	40	38	33			

Remarks:

1. Slant distance is adopted for the construction noise assessment
2. Distance correction in dB(A)
3. Facade correction in dB(A)
4. Predicted Noise Levels = CNL + 10 log (No. of group of PMEs)

Bold figures denote exceedance of relevant noise criteria

Noise Sensitive Receiver						2014				2015				2016				2017				2018			
TC-1 - Seaview Crescent Block1	SWL	Dist.(m) ¹	DC ²	FC ³	CNL, dB(A)	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Infrastructure - New Land & Existing Runway																									
Activity 1 - Site Grading & General Excavation	109	3650	79	3	33																	33	33	33	33
Activity 2 - General Site Work (Including Utility & Drainage Systems)	108	3650	79	3	32																	32	32	32	32
Activity 3a - Airfield Paving Flexible	110	3650	79	3	34																				
Activity 3b - Airfield Paving Rigid	111	3650	79	3	35																				
Activity 4 - APM & BHS Tunnel Construction	104	3650	79	3	28																				
Activity 5 - Vehicular Tunnel Construction	106	3650	79	3	30																			30	30
Activity 6a - Terminal Building Foundations & Basement	106	3650	79	3	30																				
Activity 6b - Terminal Building Structure (Concrete)	111	3650	79	3	35																				
Activity 6c - Cladding and Roof	108	3650	79	3	32																				
Activity 7 - Ancillary Support Area Building Construction	110	3650	79	3	34																			34	34
Activity 8 - Fit out	107	3650	79	3	31																				
Activity 9 - Roads	108	3650	79	3	32																			32	
Activity 10 - Airfield Planning	111	3650	79	3	35																				
Infrastructure - Midfield Modification																									
Activity 2 - General Site Work (Including Utility & Drainage Systems)	108	3020	78	3	33													33							
Activity 5 - Vehicular Tunnel Construction	106	3020	78	3	31													31	31	31	31	31	31	31	31
Infrastructure - APM/BHS Systems																									
Activity 4 - APM & BHS Tunnel Construction	104	2200	75	3	32																	32	32	32	32
Activity 6a - Terminal Building Foundations & Basement	106	2200	75	3	34													34	34	34	34	34	34	34	34
Activity 11 - APM Depot	106	2200	75	3	34																	34	34	34	34
Construction of North Commercial District (Concurrent Project)																									
Activity 1 - Site Formation for Phase 1	109	2400	76	3	36							36	36												
Activity 2 - Roadworks	110	2400	76	3	37							37	37	37	37	37	37	37	37	37	37				
Activity 3 - Foundation & building works for Phase 1	111	2400	76	3	38							38	38	38	38	38	38	38	38	38	38				
Activity 4 - Site Formation for Phase 2	106	2400	76	3	33																			33	33
Activity 5 - Foundation & building works for Phase 2	111	2400	76	3	38																	38	38	38	38
Infrastructure + NCD Noise Impact, dB(A)																									
Land Formation + New EA Road Noise Impact, dB(A)																									
Terminal 2 + Roadworks + ITT + T1 Annex Building Noise Impact, dB(A)																									
Cumulative Noise Impact, dB(A)																									
						39	46	46	47	47	43	45	45	44	44	44	44	44	44	45	44	44	46	45	45
						39	46	46	47	48	47	50	50	50	50	50	50	50	49	50	50	50	49	50	50
Noise Sensitive Receiver						2019				2020				2021				2022				2023			
TC-1 - Seaview Crescent Block1	SWL	Dist.(m) ¹	DC ²	FC ³	CNL, dB(A)	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Infrastructure - New Land & Existing Runway																									
Activity 1 - Site Grading & General Excavation	109	3650	79	3	33																	33	33		
Activity 2 - General Site Work (Including Utility & Drainage Systems)	108	3650	79	3	32	32	32	32	32	32	32		32	32	32	32						32	32		
Activity 3a - Airfield Paving Flexible	110	3650	79	3	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34			34	
Activity 3b - Airfield Paving Rigid	111	3650	79	3	35									35	35	35	35	35	35	35	35	35	35	35	35
Activity 4 - APM & BHS Tunnel Construction	104	3650	79	3	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28				
Activity 5 - Vehicular Tunnel Construction	106	3650	79	3	30	30				30	30	30	30	30	30	30	30	30	30	30	30			30	30
Activity 6a - Terminal Building Foundations & Basement	106	3650	79	3	30					30	30	30	30												
Activity 6b - Terminal Building Structure (Concrete)	111	3650	79	3	35									35	35	35	35	35	35						
Activity 6c - Cladding and Roof	108	3650	79	3	32																	32	32	32	
Activity 7 - Ancillary Support Area Building Construction	110	3650	79	3	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34			34	34
Activity 8 - Fit out	107	3650	79	3	31			31	31	31												31	31	31	
Activity 9 - Roads	108	3650	79	3	32	32	32	32	32	32	32	32										32	32		
Activity 10 - Airfield Planning	111	3650	79	3	35									35	35										
Infrastructure - Midfield Modification																									
Activity 5 - Vehicular Tunnel Construction	106	3020	78	3	31	31	31	31	31									31	31	31	31	31	31	31	31
Infrastructure - APM/BHS Systems																									
Activity 4 - APM & BHS Tunnel Construction	104	2200	75	3	32	32	32	32	32	32	32														
Activity 9 - Roads	108	2200	75	3	36																			36	
Activity 11 - APM Depot	106	2200	75	3	34	34	34	34	34	34	34	34													
Construction of North Commercial District (Concurrent Project)																									
Activity 5 - Foundation & building works for Phase 2	111	2400	76	3	38	38	38	38	38																
Infrastructure + NCD Noise Impact, dB(A)																									
Land Formation + New EA Road Noise Impact, dB(A)																									
Terminal 2 + Roadworks + ITT + T1 Annex Building Noise Impact, dB(A)																									
Cumulative Noise Impact, dB(A)																									
						43	43	43	44	43	42	41	41	42	43	42	42	42	43	43	42	31	34		
						42	42	44	38	38	36	37	29					43	44	38	37	33	29		
						45	45	45	44	43	43	42	42	42	42	40	40	40	40	38	33				
						48	48	49	47	47	46	45	45	45	47	47	45	45	45	44	42	31	34		

Remarks:
 1. Slant distance is adopted for the construction noise assessment
 2. Distance correction in dB(A)
 3. Facade correction in dB(A)
 4. Predicted Noise Levels = CNL + 10 log (No. of group of PMEs)
Bold figures denote exceedance of relevant noise criteria

Noise Sensitive Receiver						2014				2015				2016				2017				2018				
TC-5 - Tung Chung West Development	SWL	Dist.(m) ¹	DC ²	FC ³	CNL, dB(A)	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	
Advanced Works																										
Activity 1 - Aviation Fuel Pipeline Diversion	115	3750	79	3	39							39	39	39	39	39										
Activity 2 - Power Cable Diversion	115	3750	79	3	39							39	39	39	39											
Land Formation Construction Activities																										
Activity 3 - Sand Blanket Laying	106	3920	80	3	29								37	32	32	32	32	29	32	32	29					
Activity 4 - Steel Cell	113	3920	80	3	36									36	36	36										
Activity 5a - Ground Treatment by DCM Barge	115	3920	80	3	38								41	41	41	41	41	38	41	41	41	41	41	43		
Activity 5b - Ground Treatment by PVD Barge	113	3920	80	3	36								39	39	39	39	39	39	36	39	39					
Activity 5c - Ground Treatment by Stone Column (Water Based)	116	3920	80	3	39								42	39	42	42	42	39	39							
Activity 5d - Ground Treatment by Stone Column (Land Based)	111	3920	80	3	34												37	37	37							
Activity 5e - Ground Treatment by Sand Drains Barge	116	3920	80	3	39								39	39	42	42	42	39	39	42	42					
Activity 6 - Seawall Construction	111	3920	80	3	34									37	37	37	37	37	37	37	37	37	37			
Activity 7 - Marine Sand Filling	106	3920	80	3	29										29	32	32	32	32	32	32	32	34	29		
Activity 8a - Filling Above Water (Public Fill)	108	3920	80	3	31												34	34	34	34	34	34	38	39		
Activity 8b - Filling Above Water (Sand Fill)	109	3920	80	3	32											35	35	35	35	35	35	32	32	32		
Activity 8c - Compaction	100	3920	80	3	23												26	26	26	26	26	26	31	34		
Activity 9a - Placement of Surcharge	107	3920	80	3	30													33	33	33	33	33	38	38		
Activity 9b - Removal of Surcharge	106	3920	80	3	29																29	29	32	37	43	
Noise Impact, dB(A)													42	43	48	48	49	48	48	47	47	47	47	44	46	46
Noise Sensitive Receiver						2019				2020				2021				2022				2023				
TC-5 - Tung Chung West Development	SWL	Dist.(m) ¹	DC ²	FC ³	CNL, dB(A)	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	
Land Formation Construction Activities																										
Activity 3 - Sand Blanket Laying	106	3920	80	3	29										32	32										
Activity 4 - Steel Cell	113	3920	80	3	36																					
Activity 5a - Ground Treatment by DCM Barge	115	3920	80	3	38										38	38										
Activity 5b - Ground Treatment by PVD Barge	113	3920	80	3	36											36										
Activity 5c - Ground Treatment by Stone Column (Water Based)	116	3920	80	3	39																					
Activity 5d - Ground Treatment by Stone Column (Land Based)	111	3920	80	3	34																					
Activity 5e - Ground Treatment by Sand Drains Barge	116	3920	80	3	39												39	39								
Activity 6 - Seawall Construction	111	3920	80	3	34												34	34								
Activity 7 - Marine Sand Filling	106	3920	80	3	29													32	32							
Activity 8a - Filling Above Water (Public Fill)	108	3920	80	3	31					36												31	31			
Activity 8b - Filling Above Water (Sand Fill)	109	3920	80	3	32																	32	32			
Activity 8c - Compaction	100	3920	80	3	23					35												23	23			
Activity 9a - Placement of Surcharge	107	3920	80	3	30					39	39	35										33	33			
Activity 9b - Removal of Surcharge	106	3920	80	3	29					34	39	43	38	38	36	37	29									
Noise Impact, dB(A)						42	42	44	38	38	36	37	29					43	44	38	37	33	29			

Remarks:

1. Slant distance is adopted for the construction noise assessment
2. Distance correction in dB(A)
3. Facade correction in dB(A)
4. Predicted Noise Levels = CNL + 10 log (No. of group of PMEs)

Bold figures denote exceedance of relevant noise criteria

Noise Sensitive Receiver						2014				2015				2016				2017				2018				
TC-5 - Tung Chung West Development	SWL	Dist.(m) ¹	DC ²	FC ³	CNL, dB(A)	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	
Terminal 2 & Roadworks Construction Activities																										
Activity 1 - Advance Works for T2 Expansion	108	2700	77	3	34									34	34	34	34	34	34	34	34	34	34	34	34	
Activity 2 - Piling and D-wall	108	2700	77	3	34															34	34					
Activity 3 - AIS / BHS Sub-Structure	110	2700	77	3	36																		36	36	36	
Activity 4 - Superstructure	109	2700	77	3	35																		35	35	35	
Activity 5 - Existing Structural Modification	108	2700	77	3	34																					
Activity 6 - ABWF & E&M Works	105	2700	77	3	31																					
Activity 7 - At-Grade & Elevated Road Works	109	2700	77	3	35															35	35	35				
Roadworks at South Cargo Area Construction Activities																										
Activity 1 - Viaduct Roads	100	500	62	3	41															41	41	41				
Activity 2 - At-grade Roads	101	500	62	3	42															42	42	42				
Construction of Intermodal Transfer Terminal (Concurrent Project)																										
Activity 1 - Advance Works	106	3050	78	3	31			31	31																	
Activity 1a - Roadworks	111	3050	78	3	36			36	36	36																
Activity 1b - BHS	113	3050	78	3	38			38	38	38	38			38	38											
Activity 1c - APM	116	3050	78	3	41			41	41	41																
Activity 2 - Main works	109	3050	78	3	34			34	34	34																
Activity 2a - Bonded Road	112	3050	78	3	37									37	37	37	37					37				
Activity 2b - BRH & coach hall	111	3050	78	3	36			36	36	36	36	36	36	36	36	36	36			36	36					
Activity 2c - Skypier (A&A works)	105	3050	78	3	30									30	30	30	30					30				
Activity 2d - APM tunnel	105	3050	78	3	30									30	30											
Construction of Other Airport Facilities Related Works (Concurrent Project)																										
Activity 1 - Site Formation	110	3200	78	3	35									35	35											
Activity 2 - Foundation & building works	111	3200	78	3	36											36	36			36	36	36	36	36	36	
Noise Impact, dB(A)								37	44	44	45	45	41	44	44	42	42	42	42	46	46	46	46	46	47	45
Noise Sensitive Receiver						2019				2020				2021				2022				2023				
TC-5 - Tung Chung West Development	SWL	Dist.(m) ¹	DC ²	FC ³	CNL, dB(A)	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	
Terminal 2 & Roadworks Construction Activities																										
Activity 1 - Advance Works for T2 Expansion	108	2700	77	3	34	34	34																			
Activity 2 - Piling and D-wall	108	2700	77	3	34																					
Activity 3 - AIS / BHS Sub-Structure	110	2700	77	3	36	36	36	36	36	36	36															
Activity 4 - Superstructure	109	2700	77	3	35	35	35	35	35	35	35	35	35	35	35											
Activity 5 - Existing Structural Modification	108	2700	77	3	34			34	34	34	34	34	34	34	34	34	34			34	34	34				
Activity 6 - ABWF & E&M Works	105	2700	77	3	31			31	31	31	31	31	31	31	31	31	31			31	31	31	31			
Activity 7 - At-Grade & Elevated Road Works	109	2700	77	3	35	35	35	35	35	35	35	35	35	35	35	35	35			35	35					
Roadworks at South Cargo Area Construction Activities																										
Activity 1 - Viaduct Roads	100	500	62	3	41	41	41	41																		
Activity 2 - At-grade Roads	101	500	62	3	42																					
Construction of Other Airport Facilities Related Works (Concurrent Project)																										
Activity 1 - Site Formation	110	3200	78	3	35																					
Activity 2 - Foundation & building works	111	3200	78	3	36	36	36	36	36																	
Noise Impact, dB(A)						45	45	45	43	41	41	40	40	40	40	38	38	38	38	38	38	36	31			

Remarks:

1. Slant distance is adopted for the construction noise assessment
2. Distance correction in dB(A)
3. Facade correction in dB(A)
4. Predicted Noise Levels = CNL + 10 log (No. of group of PMEs)

Bold figures denote exceedance of relevant noise criteria

Noise Sensitive Receiver						2014				2015				2016				2017				2018							
TC-5 - Tung Chung West Development	SWL	Dist.(m) ¹	DC ²	FC ³	CNL, dB(A)	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4				
Infrastructure - New Land & Existing Runway																													
Activity 1 - Site Grading & General Excavation	109	3560	79	3	33																					33			
Activity 2 - General Site Work (Including Utility & Drainage Systems)	108	3560	79	3	32																					32			
Activity 3a - Airfield Paving Flexible	110	3560	79	3	34																								
Activity 3b - Airfield Paving Rigid	111	3560	79	3	35																								
Activity 4 - APM & BHS Tunnel Construction	104	3560	79	3	28																								
Activity 5 - Vehicular Tunnel Construction	106	3560	79	3	30																					30			
Activity 6a - Terminal Building Foundations & Basement	106	3560	79	3	30																					30			
Activity 6b - Terminal Building Structure (Concrete)	111	3560	79	3	35																								
Activity 6c - Cladding and Roof	108	3560	79	3	32																								
Activity 7 - Ancillary Support Area Building Construction	110	3560	79	3	34																					34			
Activity 8 - Fit out	107	3560	79	3	31																								
Activity 9 - Roads	108	3560	79	3	32																					32			
Activity 10 - Airfield Planning	111	3560	79	3	35																								
Infrastructure - Midfield Modification																													
Activity 2 - General Site Work (Including Utility & Drainage Systems)	108	2720	77	3	34																					34			
Activity 5 - Vehicular Tunnel Construction	106	2720	77	3	32																					32			
Infrastructure - APM/BHS Systems																													
Activity 4 - APM & BHS Tunnel Construction	104	2700	77	3	30																					30			
Activity 6a - Terminal Building Foundations & Basement	106	2700	77	3	32																					32			
Activity 11 - APM Depot	106	2700	77	3	32																					32			
Construction of North Commercial District (Concurrent Project)																													
Activity 1 - Site Formation for Phase 1	109	3000	78	3	34								34	34															
Activity 2 - Roadworks	110	3000	78	3	35								35	35	35	35	35	35	35	35	35	35	35	35	35				
Activity 3 - Foundation & building works for Phase 1	111	3000	78	3	36								36	36	36	36	36	36	36	36	36	36	36	36	36				
Activity 4 - Site Formation for Phase 2	106	3000	78	3	31																					31			
Activity 5 - Foundation & building works for Phase 2	111	3000	78	3	36																					36			
Infrastructure + NCD Noise Impact, dB(A)													38	40	39	39	39	39	41	40	42	42	41	42	43	42			
Land Formation + New EA Road Noise Impact, dB(A)													42	43	48	48	49	48	48	47	47	47	47	47	44	46	46		
Terminal 2 + Roadworks + ITT + T1 Annex Building Noise Impact, dB(A)													37	44	44	45	45	41	44	44	42	42	42	46	46	46	46	45	
Cumulative Noise Impact, dB(A)													37	44	44	45	47	46	50	50	50	49	50	50	50	50	50	49	
Noise Sensitive Receiver																													
TC-5 - Tung Chung West Development	SWL	Dist.(m) ¹	DC ²	FC ³	CNL, dB(A)	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4				
Infrastructure - New Land & Existing Runway																													
Activity 1 - Site Grading & General Excavation	109	3560	79	3	33																					33			
Activity 2 - General Site Work (Including Utility & Drainage Systems)	108	3560	79	3	32	32	32	32	32	32	32		32	32	32	32	32	32	32	32	32					32			
Activity 3a - Airfield Paving Flexible	110	3560	79	3	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34			
Activity 3b - Airfield Paving Rigid	111	3560	79	3	35									35	35	35	35	35	35	35	35	35	35	35	35				
Activity 4 - APM & BHS Tunnel Construction	104	3560	79	3	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28				
Activity 5 - Vehicular Tunnel Construction	106	3560	79	3	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30				
Activity 6a - Terminal Building Foundations & Basement	106	3560	79	3	30					30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30				
Activity 6b - Terminal Building Structure (Concrete)	111	3560	79	3	35									35	35	35	35	35	35	35	35	35	35	35	35				
Activity 6c - Cladding and Roof	108	3560	79	3	32																					32			
Activity 7 - Ancillary Support Area Building Construction	110	3560	79	3	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34				
Activity 8 - Fit out	107	3560	79	3	31					31	31	31	31													31			
Activity 9 - Roads	108	3560	79	3	32	32	32	32	32	32	32	32	32													32			
Activity 10 - Airfield Planning	111	3560	79	3	35											35	35												
Infrastructure - Midfield Modification																													
Activity 5 - Vehicular Tunnel Construction	106	2720	77	3	32	32	32	32	32							32	32	32	32	32	32	32	32	32	32				
Infrastructure - APM/BHS Systems																													
Activity 4 - APM & BHS Tunnel Construction	104	2700	77	3	30	30	30	30	30	30	30																		
Activity 9 - Roads	108	2700	77	3	34																					34			
Activity 11 - APM Depot	106	2700	77	3	32	32	32	32	32	32	32	32																	
Construction of North Commercial District (Concurrent Project)																													
Activity 5 - Foundation & building works for Phase 2	111	3000	78	3	36	36	36	36	36																				
Infrastructure + NCD Noise Impact, dB(A)						43	43	43	43	42	41	40	41	42	43	42	42	42	42	43	43	43	42	31	34				
Land Formation + New EA Road Noise Impact, dB(A)						42	42	44	38	38	36	37	29					43	44	38	37	33	29						
Terminal 2 + Roadworks + ITT + T1 Annex Building Noise Impact, dB(A)						45	45	45	43	41	41	40	40	40	40	38	38	38	38	38	38	36	31						
Cumulative Noise Impact, dB(A)						48	48	49	47	46	45	44	44	44	47	47	45	44	44	44	44	42	31	34					

Remarks:
1. Slant distance is adopted for the construction noise assessment
2. Distance correction in dB(A)
3. Facade correction in dB(A)
4. Predicted Noise Levels = CNL + 10 log (No. of group of PMEs)
Bold figures denote exceedance of relevant noise criteria

Noise Sensitive Receiver						2014				2015				2016				2017				2018				
TS-1 - Village House, Tin Sum	SWL	Dist.(m) ¹	DC ²	FC ³	CNL, dB(A)	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	
Advanced Works																										
Activity 1 - Aviation Fuel Pipeline Diversion	115	2650	76	3	42							42	42	42	42											
Activity 2 - Power Cable Diversion	115	2650	76	3	42							42	42	42	42											
Land Formation Construction Activities																										
Activity 3 - Sand Blanket Laying	106	3170	78	3	31								39	34	34	34	34	31	34	34	31					
Activity 4 - Steel Cell	113	3170	78	3	38									38	38	38										
Activity 5a - Ground Treatment by DCM Barge	115	3170	78	3	40									43	43	43	43	43	40	43	43	43	43	43	45	
Activity 5b - Ground Treatment by PVD Barge	113	3170	78	3	38									41	41	41	41	41	41	38	41	41				
Activity 5c - Ground Treatment by Stone Column (Water Based)	116	3170	78	3	41									44	41	44	44	44	41	41						
Activity 5d - Ground Treatment by Stone Column (Land Based)	111	3170	78	3	36													39	39	39						
Activity 5e - Ground Treatment by Sand Drains Barge	116	3170	78	3	41									41	41	44	44	44	41	41	44	44	44			
Activity 6 - Seawall Construction	111	3170	78	3	36										39	39	39	39	39	39	39	39	39	39	39	
Activity 7 - Marine Sand Filling	106	3170	78	3	31											31	34	34	34	34	34	34	34	36	31	
Activity 8a - Filling Above Water (Public Fill)	108	3170	78	3	33													36	36	36	36	36	36	40	41	
Activity 8b - Filling Above Water (Sand Fill)	109	3170	78	3	34													37	37	37	37	37	34	34	34	
Activity 8c - Compaction	100	3170	78	3	25														28	28	28	28	28	33	36	
Activity 9a - Placement of Surcharge	107	3170	78	3	32														35	35	35	35	35	40	40	
Activity 9b - Removal of Surcharge	106	3170	78	3	31																	31	31	34	39	45
Noise Impact, dB(A)															45	46	50	50	51	50	50	49	49	49	49	48
Noise Sensitive Receiver						2019				2020				2021				2022				2023				
TS-1 - Village House, Tin Sum	SWL	Dist.(m) ¹	DC ²	FC ³	CNL, dB(A)	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	
Land Formation Construction Activities																										
Activity 3 - Sand Blanket Laying	106	3170	78	3	31													34	34							
Activity 4 - Steel Cell	113	3170	78	3	38																					
Activity 5a - Ground Treatment by DCM Barge	115	3170	78	3	40													40	40							
Activity 5b - Ground Treatment by PVD Barge	113	3170	78	3	38																	38				
Activity 5c - Ground Treatment by Stone Column (Water Based)	116	3170	78	3	41																					
Activity 5d - Ground Treatment by Stone Column (Land Based)	111	3170	78	3	36																					
Activity 5e - Ground Treatment by Sand Drains Barge	116	3170	78	3	41													41	41							
Activity 6 - Seawall Construction	111	3170	78	3	36													36	36							
Activity 7 - Marine Sand Filling	106	3170	78	3	31																	34	34			
Activity 8a - Filling Above Water (Public Fill)	108	3170	78	3	33									38										33	33	
Activity 8b - Filling Above Water (Sand Fill)	109	3170	78	3	34																			34	34	
Activity 8c - Compaction	100	3170	78	3	25									37										25	25	
Activity 9a - Placement of Surcharge	107	3170	78	3	32									41	41	37								35	35	
Activity 9b - Removal of Surcharge	106	3170	78	3	31									36	41	45	40	40	38	39	31					
Noise Impact, dB(A)						44	44	46	40	40	38	39	31	45	46	40	39	35	31							

Remarks:

1. Slant distance is adopted for the construction noise assessment
2. Distance correction in dB(A)
3. Facade correction in dB(A)
4. Predicted Noise Levels = CNL + 10 log (No. of group of PMEs)

Bold figures denote exceedance of relevant noise criteria

Noise Sensitive Receiver						2014				2015				2016				2017				2018			
TS-1 - Village House, Tin Sum	SWL	Dist.(m) ¹	DC ²	FC ³	CNL, dB(A)	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Terminal 2 & Roadworks Construction Activities																									
Activity 1 - Advance Works for T2 Expansion	108	3000	78	3	33									33	33	33	33	33	33	33	33	33	33	33	33
Activity 2 - Piling and D-wall	108	3000	78	3	33															33	33	33	33		
Activity 3 - AIS / BHS Sub-Structure	110	3000	78	3	35																		35	35	35
Activity 4 - Superstructure	109	3000	78	3	34																		34	34	34
Activity 5 - Existing Structural Modification	108	3000	78	3	33																				
Activity 6 - ABWF & E&M Works	105	3000	78	3	30																				
Activity 7 - At-Grade & Elevated Road Works	109	3000	78	3	34															34	34	34	34	34	34
Roadworks at South Cargo Area Construction Activities																									
Activity 1 - Viaduct Roads	100	620	64	3	39															39	39	39	39	39	39
Activity 2 - At-grade Roads	101	620	64	3	40															40	40	40	40	40	
Construction of Intermodal Transfer Terminal (Concurrent Project)																									
Activity 1 - Advance Works	106	3450	79	3	30			30	30																
Activity 1a - Roadworks	111	3450	79	3	35			35	35	35															
Activity 1b - BHS	113	3450	79	3	37			37	37	37	37	37	37	37	37	37									
Activity 1c - APM	116	3450	79	3	40			40	40	40	40	40	40	40	40	40									
Activity 2 - Main works	109	3450	79	3	33					33	33	33													
Activity 2a - Bonded Road	112	3450	79	3	36									36	36	36	36	36	36						
Activity 2b - BRH & coach hall	111	3450	79	3	35					35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	
Activity 2c - Skypier (A&A works)	105	3450	79	3	29						29	29	29	29	29	29	29	29	29	29	29	29	29	29	
Activity 2d - APM tunnel	105	3450	79	3	29						29	29	29	29	29	29	29	29	29	29	29	29	29	29	
Construction of Other Airport Facilities Related Works (Concurrent Project)																									
Activity 1 - Site Formation	110	3200	78	3	35									35	35										
Activity 2 - Foundation & building works	111	3200	78	3	36												36	36	36	36	36	36	36	36	36
Noise Impact, dB(A)								36	43	43	44	44	40	43	43	41	41	41	41	45	45	45	45	45	43
Noise Sensitive Receiver						2019				2020				2021				2022				2023			
TS-1 - Village House, Tin Sum	SWL	Dist.(m) ¹	DC ²	FC ³	CNL, dB(A)	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Terminal 2 & Roadworks Construction Activities																									
Activity 1 - Advance Works for T2 Expansion	108	3000	78	3	33	33	33																		
Activity 2 - Piling and D-wall	108	3000	78	3	33																				
Activity 3 - AIS / BHS Sub-Structure	110	3000	78	3	35	35	35	35	35	35	35														
Activity 4 - Superstructure	109	3000	78	3	34	34	34	34	34	34	34	34	34	34	34										
Activity 5 - Existing Structural Modification	108	3000	78	3	33			33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	
Activity 6 - ABWF & E&M Works	105	3000	78	3	30			30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	
Activity 7 - At-Grade & Elevated Road Works	109	3000	78	3	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	
Roadworks at South Cargo Area Construction Activities																									
Activity 1 - Viaduct Roads	100	620	64	3	39	39	39	39																	
Activity 2 - At-grade Roads	101	620	64	3	40																				
Construction of Other Airport Facilities Related Works (Concurrent Project)																									
Activity 1 - Site Formation	110	3200	78	3	35																				
Activity 2 - Foundation & building works	111	3200	78	3	36	36	36	36	36																
Noise Impact, dB(A)						43	44	44	42	40	40	39	39	39	39	39	37	37	37	37	37	35	30		

Remarks:

1. Slant distance is adopted for the construction noise assessment
2. Distance correction in dB(A)
3. Facade correction in dB(A)
4. Predicted Noise Levels = CNL + 10 log (No. of group of PMEs)

Bold figures denote exceedance of relevant noise criteria

Noise Sensitive Receiver						2014				2015				2016				2017				2018												
TS-1 - Village House, Tin Sum	SWL	Dist.(m) ¹	DC ²	FC ³	CNL, dB(A)	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4									
Infrastructure - New Land & Existing Runway																																		
Activity 1 - Site Grading & General Excavation	109	2810	77	3	35																													
Activity 2 - General Site Work (Including Utility & Drainage Systems)	108	2810	77	3	34																		35	35	35	35								
Activity 3a - Airfield Paving Flexible	110	2810	77	3	36																			34	34	34								
Activity 3b - Airfield Paving Rigid	111	2810	77	3	37																													
Activity 4 - APM & BHS Tunnel Construction	104	2810	77	3	30																													
Activity 5 - Vehicular Tunnel Construction	106	2810	77	3	32																				32	32								
Activity 6a - Terminal Building Foundations & Basement	106	2810	77	3	32																													
Activity 6b - Terminal Building Structure (Concrete)	111	2810	77	3	37																													
Activity 6c - Cladding and Roof	108	2810	77	3	34																													
Activity 7 - Ancillary Support Area Building Construction	110	2810	77	3	36																			36	36	36								
Activity 8 - Fit out	107	2810	77	3	33																													
Activity 9 - Roads	108	2810	77	3	34																				34									
Activity 10 - Airfield Planning	111	2810	77	3	37																													
Infrastructure - Midfield Modification																																		
Activity 2 - General Site Work (Including Utility & Drainage Systems)	108	1850	73	3	38																		38											
Activity 5 - Vehicular Tunnel Construction	106	1850	73	3	36																		36	36	36	36								
Infrastructure - APM/BHS Systems																																		
Activity 4 - APM & BHS Tunnel Construction	104	3000	78	3	29																			29	29	29	29							
Activity 6a - Terminal Building Foundations & Basement	106	3000	78	3	31																		31	31	31	31								
Activity 11 - APM Depot	106	3000	78	3	31																			31	31	31	31							
Construction of North Commercial District (Concurrent Project)																																		
Activity 1 - Site Formation for Phase 1	109	3350	79	3	33								33	33																				
Activity 2 - Roadworks	110	3350	79	3	34								34	34	34	34	34																	
Activity 3 - Foundation & building works for Phase 1	111	3350	79	3	35								35	35	35	35	35																	
Activity 4 - Site Formation for Phase 2	106	3350	79	3	30																			30	30									
Activity 5 - Foundation & building works for Phase 2	111	3350	79	3	35																			35	35	35	35							
Infrastructure + NCD Noise Impact, dB(A)													37	39	38	38	38	38					42	40	42	42	41	43	44	43				
Land Formation + New EA Road Noise Impact, dB(A)													45	46	50	50	51	50	50	49	49	49					49	46	48	48				
Terminal 2 + Roadworks + ITT + T1 Annex Building Noise Impact, dB(A)													36	43	43	44	44	40	43	43	41	41					41	45	45	45	45	45	43	43
Cumulative Noise Impact, dB(A)													36	43	43	44	48	48	51	51	52	51	51	51	51	51	51	50	50	50	50			
Noise Sensitive Receiver																																		
TS-1 - Village House, Tin Sum	SWL	Dist.(m) ¹	DC ²	FC ³	CNL, dB(A)	2019				2020				2021				2022				2023												
Infrastructure - New Land & Existing Runway																																		
Activity 1 - Site Grading & General Excavation	109	2810	77	3	35	35	35	35	35	35														35	35									
Activity 2 - General Site Work (Including Utility & Drainage Systems)	108	2810	77	3	34	34	34	34	34	34	34	34	34	34	34	34	34							34	34									
Activity 3a - Airfield Paving Flexible	110	2810	77	3	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36							
Activity 3b - Airfield Paving Rigid	111	2810	77	3	37																				37	37	37	37						
Activity 4 - APM & BHS Tunnel Construction	104	2810	77	3	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30							
Activity 5 - Vehicular Tunnel Construction	106	2810	77	3	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32							
Activity 6a - Terminal Building Foundations & Basement	106	2810	77	3	32																													
Activity 6b - Terminal Building Structure (Concrete)	111	2810	77	3	37																													
Activity 6c - Cladding and Roof	108	2810	77	3	34																				34	34	34							
Activity 7 - Ancillary Support Area Building Construction	110	2810	77	3	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36							
Activity 8 - Fit out	107	2810	77	3	33																				33	33	33							
Activity 9 - Roads	108	2810	77	3	34	34	34	34	34	34	34	34													34	34								
Activity 10 - Airfield Planning	111	2810	77	3	37																													
Infrastructure - Midfield Modification																																		
Activity 5 - Vehicular Tunnel Construction	106	1850	73	3	36	36	36	36	36															36	36	36	36							
Infrastructure - APM/BHS Systems																																		
Activity 4 - APM & BHS Tunnel Construction	104	3000	78	3	29	29	29	29	29	29	29																							
Activity 9 - Roads	108	3000	78	3	33																				33									
Activity 11 - APM Depot	106	3000	78	3	31	31	31	31	31	31	31	31																						
Construction of North Commercial District (Concurrent Project)																																		
Activity 5 - Foundation & building works for Phase 2	111	3350	79	3	35	35	35	35	35																									
Infrastructure + NCD Noise Impact, dB(A)						44	45	45	45	45	44	43	42	44	44	45	45	45	45	44	45	45	44				33	36						
Land Formation + New EA Road Noise Impact, dB(A)						44	44	46	40	40	38	39	31																					
Terminal 2 + Roadworks + ITT + T1 Annex Building Noise Impact, dB(A)						43	44	44	42	40	40	39	39	39	39	39	37	37	37	37	37	37	35	30										
Cumulative Noise Impact, dB(A)						49	49	50	48	47	46	45	45	45	49	49	46	46	46	46	44													

Remarks:
1. Slant distance is adopted for the construction noise assessment
2. Distance correction in dB(A)
3. Facade correction in dB(A)
4. Predicted Noise Levels = CNL + 10 log (No. of group of PMEs)
Bold figures denote exceedance of relevant noise criteria

Noise Sensitive Receiver						2014				2015				2016				2017				2018				
SLW-1 - House No.1, Sha Lo Wan	SWL	Dist.(m) ¹	DC ²	FC ³	CNL, dB(A)	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	
Advanced Works																										
Activity 1 - Aviation Fuel Pipeline Diversion	115	1140	69	3	49							49	49	49	49	49										
Activity 2 - Power Cable Diversion	115	1140	69	3	49							49	49	49	49											
Land Formation Construction Activities																										
Activity 3 - Sand Blanket Laying	106	2600	76	3	33								41	36	36	36	36	33	36	36	33					
Activity 4 - Steel Cell	113	2600	76	3	40									40	40	40										
Activity 5a - Ground Treatment by DCM Barge	115	2600	76	3	42									45	45	45	45	45	42	45	45	45	45	45	47	
Activity 5b - Ground Treatment by PVD Barge	113	2600	76	3	40									43	43	43	43	43	43	40	43	43				
Activity 5c - Ground Treatment by Stone Column (Water Based)	116	2600	76	3	43									46	43	46	46	46	43	43						
Activity 5d - Ground Treatment by Stone Column (Land Based)	111	2600	76	3	38													41	41	41						
Activity 5e - Ground Treatment by Sand Drains Barge	116	2600	76	3	43									43	43	46	46	46	43	43	46	46	46			
Activity 6 - Seawall Construction	111	2600	76	3	38										41	41	41	41	41	41	41	41	41	41	41	
Activity 7 - Marine Sand Filling	106	2600	76	3	33											33	36	36	36	36	36	36	36	38	33	
Activity 8a - Filling Above Water (Public Fill)	108	2600	76	3	35													38	38	38	38	38	38	42	43	
Activity 8b - Filling Above Water (Sand Fill)	109	2600	76	3	36													39	39	39	39	39	36	36	36	
Activity 8c - Compaction	100	2600	76	3	27														30	30	30	30	30	35	38	
Activity 9a - Placement of Surcharge	107	2600	76	3	34														37	37	37	37	37	42	42	
Activity 9b - Removal of Surcharge	106	2600	76	3	33																	33	33	36	41	47
Noise Impact, dB(A)															52	52	54	54	54	52	52	51	51	51	51	50
Noise Sensitive Receiver						2019				2020				2021				2022				2023				
SLW-1 - House No.1, Sha Lo Wan	SWL	Dist.(m) ¹	DC ²	FC ³	CNL, dB(A)	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	
Land Formation Construction Activities																										
Activity 3 - Sand Blanket Laying	106	2600	76	3	33																					
Activity 4 - Steel Cell	113	2600	76	3	40																					
Activity 5a - Ground Treatment by DCM Barge	115	2600	76	3	42																					
Activity 5b - Ground Treatment by PVD Barge	113	2600	76	3	40																					
Activity 5c - Ground Treatment by Stone Column (Water Based)	116	2600	76	3	43																					
Activity 5d - Ground Treatment by Stone Column (Land Based)	111	2600	76	3	38																					
Activity 5e - Ground Treatment by Sand Drains Barge	116	2600	76	3	43																					
Activity 6 - Seawall Construction	111	2600	76	3	38																					
Activity 7 - Marine Sand Filling	106	2600	76	3	33																					
Activity 8a - Filling Above Water (Public Fill)	108	2600	76	3	35																					
Activity 8b - Filling Above Water (Sand Fill)	109	2600	76	3	36																					
Activity 8c - Compaction	100	2600	76	3	27																					
Activity 9a - Placement of Surcharge	107	2600	76	3	34																					
Activity 9b - Removal of Surcharge	106	2600	76	3	33																					
Noise Impact, dB(A)						46	46	48	42	42	40	41	33					47	48	42	41	37	33			

Remarks:

1. Slant distance is adopted for the construction noise assessment
2. Distance correction in dB(A)
3. Facade correction in dB(A)
4. Predicted Noise Levels = CNL + 10 log (No. of group of PMEs)

Bold figures denote exceedance of relevant noise criteria

Noise Sensitive Receiver						2014				2015				2016				2017				2018				
SLW-1 - House No.1, Sha Lo Wan	SWL	Dist.(m) ¹	DC ²	FC ³	CNL, dB(A)	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	
Terminal 2 & Roadworks Construction Activities																										
Activity 1 - Advance Works for T2 Expansion	108	4100	80	3	31									31	31	31	31	31	31	31	31	31	31	31	31	31
Activity 2 - Piling and D-wall	108	4100	80	3	31															31	31					
Activity 3 - AIS / BHS Sub-Structure	110	4100	80	3	33																		33	33	33	
Activity 4 - Superstructure	109	4100	80	3	32																			32	32	32
Activity 5 - Existing Structural Modification	108	4100	80	3	31																					
Activity 6 - ABWF & E&M Works	105	4100	80	3	28																					
Activity 7 - At-Grade & Elevated Road Works	109	4100	80	3	32																					
Roadworks at South Cargo Area Construction Activities																										
Activity 1 - Viaduct Roads	100	1820	73	3	30																					
Activity 2 - At-grade Roads	101	1820	73	3	31																					
Construction of Intermodal Transfer Terminal (Concurrent Project)																										
Activity 1 - Advance Works	106	4650	81	3	28				28	28																
Activity 1a - Roadworks	111	4650	81	3	33				33	33	33															
Activity 1b - BHS	113	4650	81	3	35				35	35	35	35	35	35	35											
Activity 1c - APM	116	4650	81	3	38				38	38	38	38														
Activity 2 - Main works	109	4650	81	3	31					31	31	31														
Activity 2a - Bonded Road	112	4650	81	3	34									34	34	34	34	34	34							
Activity 2b - BRH & coach hall	111	4650	81	3	33					33	33	33	33	33	33	33	33	33	33	33	33					
Activity 2c - Skypier (A&A works)	105	4650	81	3	27									27	27	27	27	27	27	27	27					
Activity 2d - APM tunnel	105	4650	81	3	27									27	27	27	27	27	27	27	27					
Construction of Other Airport Facilities Related Works (Concurrent Project)																										
Activity 1 - Site Formation	110	4050	80	3	33									33	33											
Activity 2 - Foundation & building works	111	4050	80	3	34													34	34	34	34	34	34	34	34	34
Noise Impact, dB(A)									34	41	41	42	42	38	41	41	39	39	39	40	40	39	39	41	40	40
Noise Sensitive Receiver						2019				2020				2021				2022				2023				
SLW-1 - House No.1, Sha Lo Wan	SWL	Dist.(m) ¹	DC ²	FC ³	CNL, dB(A)	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	
Terminal 2 & Roadworks Construction Activities																										
Activity 1 - Advance Works for T2 Expansion	108	4100	80	3	31	31	31																			
Activity 2 - Piling and D-wall	108	4100	80	3	31																					
Activity 3 - AIS / BHS Sub-Structure	110	4100	80	3	33	33	33	33	33	33	33															
Activity 4 - Superstructure	109	4100	80	3	32	32	32	32	32	32	32	32	32	32	32											
Activity 5 - Existing Structural Modification	108	4100	80	3	31					31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31
Activity 6 - ABWF & E&M Works	105	4100	80	3	28					28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28
Activity 7 - At-Grade & Elevated Road Works	109	4100	80	3	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32
Roadworks at South Cargo Area Construction Activities																										
Activity 1 - Viaduct Roads	100	1820	73	3	30	30	30	30																		
Activity 2 - At-grade Roads	101	1820	73	3	31																					
Construction of Other Airport Facilities Related Works (Concurrent Project)																										
Activity 1 - Site Formation	110	4050	80	3	33																					
Activity 2 - Foundation & building works	111	4050	80	3	34	34	34	34	34																	
Noise Impact, dB(A)						40	41	40	40	38	38	37	37	37	37	37	35	35	35	35	33	28				

Remarks:

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2. Distance correction in dB(A)
3. Facade correction in dB(A)
4. Predicted Noise Levels = CNL + 10 log (No. of group of PMEs)

Bold figures denote exceedance of relevant noise criteria

Noise Sensitive Receiver						2014				2015				2016				2017				2018					
SLW-1 - House No.1, Sha Lo Wan	SWL	Dist.(m) ¹	DC ²	FC ³	CNL, dB(A)	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
Infrastructure - New Land & Existing Runway																											
Activity 1 - Site Grading & General Excavation	109	2180	75	3	37																						
Activity 2 - General Site Work (Including Utility & Drainage Systems)	108	2180	75	3	36																						
Activity 3a - Airfield Paving Flexible	110	2180	75	3	38																						
Activity 3b - Airfield Paving Rigid	111	2180	75	3	39																						
Activity 4 - APM & BHS Tunnel Construction	104	2180	75	3	32																						
Activity 5 - Vehicular Tunnel Construction	106	2180	75	3	34																						
Activity 6a - Terminal Building Foundations & Basement	106	2180	75	3	34																						
Activity 6b - Terminal Building Structure (Concrete)	111	2180	75	3	39																						
Activity 6c - Cladding and Roof	108	2180	75	3	36																						
Activity 7 - Ancillary Support Area Building Construction	110	2180	75	3	38																						
Activity 8 - Fit out	107	2180	75	3	35																						
Activity 9 - Roads	108	2180	75	3	36																						
Activity 10 - Airfield Planning	111	2180	75	3	39																						
Infrastructure - Midfield Modification																											
Activity 2 - General Site Work (Including Utility & Drainage Systems)	108	1250	70	3	41																						
Activity 5 - Vehicular Tunnel Construction	106	1250	70	3	39																						
Infrastructure - APM/BHS Systems																											
Activity 4 - APM & BHS Tunnel Construction	104	4100	80	3	27																						
Activity 6a - Terminal Building Foundations & Basement	106	4100	80	3	29																						
Activity 11 - APM Depot	106	4100	80	3	29																						
Construction of North Commercial District (Concurrent Project)																											
Activity 1 - Site Formation for Phase 1	109	4450	81	3	31																						
Activity 2 - Roadworks	110	4450	81	3	32																						
Activity 3 - Foundation & building works for Phase 1	111	4450	81	3	33																						
Activity 4 - Site Formation for Phase 2	106	4450	81	3	28																						
Activity 5 - Foundation & building works for Phase 2	111	4450	81	3	33																						
Infrastructure + NCD Noise Impact, dB(A)																											
Land Formation + New EA Road Noise Impact, dB(A)																											
Terminal 2 + Roadworks + ITT + T1 Annex Building Noise Impact, dB(A)																											
Cumulative Noise Impact, dB(A)																											
Noise Sensitive Receiver																											
SLW-1 - House No.1, Sha Lo Wan	SWL	Dist.(m) ¹	DC ²	FC ³	CNL, dB(A)	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
Infrastructure - New Land & Existing Runway																											
Activity 1 - Site Grading & General Excavation	109	2180	75	3	37	37	37	37	37	37																	
Activity 2 - General Site Work (Including Utility & Drainage Systems)	108	2180	75	3	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36						
Activity 3a - Airfield Paving Flexible	110	2180	75	3	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38						
Activity 3b - Airfield Paving Rigid	111	2180	75	3	39																						
Activity 4 - APM & BHS Tunnel Construction	104	2180	75	3	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32						
Activity 5 - Vehicular Tunnel Construction	106	2180	75	3	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34						
Activity 6a - Terminal Building Foundations & Basement	106	2180	75	3	34																						
Activity 6b - Terminal Building Structure (Concrete)	111	2180	75	3	39																						
Activity 6c - Cladding and Roof	108	2180	75	3	36																						
Activity 7 - Ancillary Support Area Building Construction	110	2180	75	3	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38						
Activity 8 - Fit out	107	2180	75	3	35																						
Activity 9 - Roads	108	2180	75	3	36	36	36	36	36	36	36	36	36														
Activity 10 - Airfield Planning	111	2180	75	3	39																						
Infrastructure - Midfield Modification																											
Activity 5 - Vehicular Tunnel Construction	106	1250	70	3	39	39	39	39	39																		
Infrastructure - APM/BHS Systems																											
Activity 4 - APM & BHS Tunnel Construction	104	4100	80	3	27	27	27	27	27	27	27																
Activity 9 - Roads	108	4100	80	3	31																						
Activity 11 - APM Depot	106	4100	80	3	29	29	29	29	29	29	29																
Construction of North Commercial District (Concurrent Project)																											
Activity 5 - Foundation & building works for Phase 2	111	4450	81	3	33	33	33	33	33																		
Infrastructure + NCD Noise Impact, dB(A)						46	46	46	47	46	45	44	46	46	47	47	47	46	47	47	46	35	38				
Land Formation + New EA Road Noise Impact, dB(A)						46	46	48	42	42	40	41	33					47	48	42	41	37	33				
Terminal 2 + Roadworks + ITT + T1 Annex Building Noise Impact, dB(A)						40	41	40	40	38	38	37	37	37	37	35	35	35	35	35	35	33	28				
Cumulative Noise Impact, dB(A)						50	50	51	49	48	47	46	46	46	50	51	48	48	48	48	46	35	38				

Remarks:
1. Slant distance is adopted for the construction noise assessment
2. Distance correction in dB(A)
3. Facade correction in dB(A)
4. Predicted Noise Levels = CNL + 10 log (No. of group of PMEs)
Bold figures denote exceedance of relevant noise criteria