

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)
<b>Advanced Works</b>							
<b>Activity 1 - Aviation Fuel Pipeline Diversion</b>							
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
<b>Activity 2 - Power Cable Diversion</b>							
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
<b>Land Formation Construction Activities</b>							
<b>Activity 3 - Sand Blanket Laying</b>							
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
<b>Activity 4 - Steel Cell</b>							
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
<b>Activity 5a - Ground Treatment by DCM Barge</b>							
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
<b>Activity 5b - Ground Treatment by PVD Barge</b>							
Dredger, grab	CNP 063	112	1	80%			111
Tug boat	CNP 221	110	1	80%			109
Total SWL, dB (A)							113
<b>Activity 5c - Ground Treatment by Stone Column (Water Based)</b>							
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
<b>Activity 5d - Ground Treatment by Stone Column (Land Based)</b>							
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
<b>Activity 5e - Ground Treatment by Sand Drains Barge</b>							
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
<b>Activity 6 - Seawall Construction</b>							
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
<b>Activity 7 - Marine Sand Filling</b>							
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
<b>Activity 8a - Filling Above Water (Public Fill)</b>							
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
<b>Activity 8b - Filling Above Water (Sand Fill)</b>							
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)
<b>Activity 8c - Compaction</b>							
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)							<b>100</b>
<b>Activity 9a - Placement of Surcharge</b>							
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)							<b>107</b>
<b>Activity 9b - Removal of Surcharge</b>							
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)							<b>106</b>
<b>Construction of Extension of South Perimeter Road</b>							
<b>Activity - Roadworks</b>							
Air compressor, air flow > 10m <sup>3</sup> /min and ≤ 30m <sup>3</sup> /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)							<b>116</b>

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](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)
<b>Terminal 2 &amp; Roadworks Construction Activities</b>							
<b>Activity 1 - Advance Works for T2 Expansion</b>							
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)							<b>108</b>
<b>Activity 2 - Piling and D-wall</b>							
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)							<b>108</b>
<b>Activity 3 - AIS / BHS Sub-Structure</b>							
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)							<b>110</b>
<b>Activity 4 - Superstructure</b>							
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)							<b>109</b>
<b>Activity 5 - Existing Structural Modification</b>							
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)							<b>108</b>

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)
<b>Activity 6 - ABWF &amp; E&amp;M Works</b>							
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)							<b>105</b>
<b>Activity 7 - At-Grade &amp; Elevated Road Works</b>							
Air compressor, air flow > 10m3/min and ≤ 30m3/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)							<b>109</b>
<b>Roadworks at South Cargo Area Construction Activities</b>							
<b>Activity 1 - Viaduct Roads</b>							
Air compressor, air flow > 10m3/min and ≤ 30m3/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)							<b>100</b>
<b>Activity 2 - At-grade Roads</b>							
Air compressor, air flow > 10m3/min and ≤ 30m3/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)							<b>101</b>

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)
<b>Construction of Intermodal Transfer Terminal (Concurrent Project)</b>							
<b>Activity 1 - Advance Works</b>							
Air compressor, air flow > 10m3/min and ≤ 30m3/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)							<b>106</b>
<b>Activity 1a - Roadworks</b>							
Air compressor, air flow > 10m3/min and ≤ 30m3/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)							<b>111</b>
<b>Activity 1b - BHS</b>							
Air compressor, air flow > 10m3/min and ≤ 30m3/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)							<b>113</b>
<b>Activity 1c - APM</b>							
Air compressor, air flow > 10m3/min and ≤ 30m3/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)							<b>116</b>
<b>Activity 2 - Main works</b>							
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	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)							<b>109</b>

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)
<b>Activity 2a - Bonded Road</b>							
Air compressor, air flow > 10m <sup>3</sup> /min and ≤ 30m <sup>3</sup> /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)							<b>112</b>
<b>Activity 2b - BRH &amp; coach hall</b>							
Air compressor, air flow > 10m <sup>3</sup> /min and ≤ 30m <sup>3</sup> /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)							<b>111</b>
<b>Activity 2c - Skypier (A&amp;A works)</b>							
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)							<b>105</b>
<b>Activity 2d - APM tunnel</b>							
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)							<b>105</b>

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)
<b>Construction of Other Airport Facilities Related Works (Concurrent Project)</b>							
<b>Activity 1 - Site Formation</b>							
Air compressor, air flow > 10m <sup>3</sup> /min and ≤ 30m <sup>3</sup> /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)							<b>110</b>
<b>Activity 2 - Foundation &amp; building works</b>							
Air compressor, air flow > 10m <sup>3</sup> /min and ≤ 30m <sup>3</sup> /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)							<b>111</b>

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](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)
<b>Infrastructure Construction Activities</b>							
<b>Activity 1 - Site Grading &amp; General Excavation</b>							
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)							<b>109</b>
<b>Activity 2 - General Site Work (Including Utility &amp; Drainage Systems)</b>							
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)							<b>108</b>
<b>Activity 3a - Airfield Paving Flexible</b>							
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)							<b>110</b>
<b>Activity 3b - Airfield Paving Rigid</b>							
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)							<b>111</b>
<b>Activity 4 - APM &amp; BHS Tunnel Construction</b>							
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)							<b>104</b>
<b>Activity 5 - Vehicular Tunnel Construction</b>							
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)							<b>106</b>



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)
<b>Activity 6a - Terminal Building Foundations &amp; Basement</b>							
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)							<b>106</b>
<b>Activity 6b - Terminal Building Structure (Concrete)</b>							
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)							<b>111</b>
<b>Activity 6c - Cladding and Roof</b>							
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)							<b>108</b>
<b>Activity 7 - Ancillary Support Area Building Construction</b>							
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)							<b>110</b>
<b>Activity 8 - Fit out</b>							
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)							<b>107</b>
<b>Activity 9 - Roads</b>							
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)							<b>108</b>
<b>Activity 10 - Airfield Planing</b>							
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)							<b>111</b>

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)
<b>Activity 11 - APM Depot</b>							
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)							<b>106</b>
<b>Construction of North Commercial District (Concurrent Project)</b>							
<b>Activity 1 - Site Formation for Phase 1</b>							
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)							<b>109</b>
<b>Activity 2 - Roadworks</b>							
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 0054	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)							<b>110</b>
<b>Activity 3 - Foundation &amp; building works for Phase 1</b>							
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)							<b>111</b>

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)
<b>Activity 4 - Site Formation for Phase 2</b>							
Air compressor, air flow > 10m <sup>3</sup> /min and ≤ 30m <sup>3</sup> /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)							<b>106</b>
<b>Activity 5 - Foundation &amp; building works for Phase 2</b>							
Air compressor, air flow > 10m <sup>3</sup> /min and ≤ 30m <sup>3</sup> /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)							<b>111</b>

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](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).