

CE 38/2008(HY)
Kai Tak Development - Trunk Road T2 and Infrastructure at South Apron
Investigation, Design and Construction
Plant Inventory
Unmitigated Scenario

ID	PME	CNP	No. of Item	% on time	SWL, dB(A)	Mitigation Measures	Attenuation	Total SWL, dB(A)	
2. Mobilisation									
2	Mobilisation								
	Lorry, 5.5 tonne < gross vehicle weight <= 38 tonne	CNP 142	4	30%	105	Nil		106	
	Crane, Mobile/Barge Mounted (diesel)	CNP 048	2	50%	112	Nil		112	
	Generator, Silenced, 75 dB(A) at 7m	CNP 102	2	100%	100	Nil		103	
	Drill, Precussive, Hand-held (Electric)	CNP 064	2	70%	103	Nil		104	
	Total:							114	
3. Site Investigation									
3.1	Site Investigation at KTD (Total 9 Teams in Operation)								
	Drill rig, rotary type (diesel)	CNP 072	1	70%	110	Nil		108	
	Water Pump (Petrol)	CNP 282	1	100%	103	Nil		103	
Total:							110		
3.2	Site Investigation at Lam Tin (Total 2 Teams in Operation)								
	Drill rig, rotary type (diesel)	CNP 072	1	70%	110	Nil		108	
	Water Pump (Petrol)	CNP 282	1	100%	103	Nil		103	
Total:							110		
4. TBM									
4.1	Design and Procurement (Shaft Construction)								
	(No plant for design & procurement)								
4.2	Mobilisation & 1st TBM Launching								
	Crane, Tower (Electric)	CNP 049	1	50%	95	Nil		92	
	Crane, Mobile/Barge Mounted (diesel)	CNP 048	2	50%	112	Nil		112	
	Generator, Silenced, 75 dB(A) at 7m	CNP 102	2	100%	100	Nil		103	
	Lorry, 5.5 tonne < gross vehicle weight <= 38 tonne	CNP 142	2	30%	105	Nil		103	
	Total:							113	
4.3	Tunneling Works of Bore 1								
	Breaker, Excavator Mounted (Hydraulic)	CNP 028	1	70%	122	Underground Works	-25	95	
	Generator, Silenced, 75 dB(A) at 7m	CNP 102	2	100%	100	Nil	-25	78	
	Conveyor Belt	CNP 041	2	100%	90	Underground Works	-25	68	
	Ventilation Fan	CNP 241	3	100%	108	Underground Works	-25	88	
	Dump Truck, gross vehicle weight > 38 tonne	CNP 067	4	30%	117	Nil	-25	93	
	Power pack (diesel)	CNP 174	2	100%	100	Underground Works	-25	78	
	Soil pump	CNP 206	4	70%	103	Underground Works	-25	82	
	Water Pump (Electric)	CNP 281	4	100%	88	Underground Works	-25	69	
								-25	0
	4.4	Launch of 2nd TBM							
Crane, Tower (Electric)		CNP 049	1	50%	95	Nil	-25	67	
Crane, Mobile/Barge Mounted (diesel)		CNP 048	2	50%	112	Nil	-25	87	
Generator, Silenced, 75 dB(A) at 7m		CNP 102	2	100%	100	Nil	-25	78	
Lorry, 5.5 tonne < gross vehicle weight <= 38 tonne		CNP 142	2	30%	105	Nil	-25	78	
							-25	0	
4.5	Tunneling Works of Bore 2								
	Breaker, Excavator Mounted (Hydraulic)	CNP 028	1	70%	122	Underground Works	-25	95	
	Generator, Silenced, 75 dB(A) at 7m	CNP 102	2	100%	100	Nil	-25	78	
	Conveyor Belt	CNP 041	2	100%	90	Underground Works	-25	68	
	Ventilation Fan	CNP 241	3	100%	108	Underground Works	-25	88	
	Dump Truck, gross vehicle weight > 38 tonne	CNP 067	4	30%	117	Nil	-25	93	
	Power pack (diesel)	CNP 174	2	100%	100	Underground Works	-25	78	
	Soil pump	CNP 206	4	70%	103	Underground Works	-25	82	
	Water Pump (Electric)	CNP 281	4	100%	88	Underground Works	-25	69	
								-25	0
	4.6	Cross passages							
Hoist, Passenger/Material (Electric)		CNP 122	1	70%	95	Underground Works	-25	68	
Generator, Silenced, 75 dB(A) at 7m		CNP 102	1	100%	100	Underground Works	-25	75	
Conveyor Belt		CNP 041	2	100%	90	Underground Works	-25	68	
Ventilation Fan		CNP 241	3	100%	108	Underground Works	-25	88	
Dump Truck, gross vehicle weight > 38 tonne		CNP 067	2	30%	117	Nil	-25	90	
Power pack (diesel)		CNP 174	1	100%	100	Underground Works	-25	75	
Soil pump		CNP 206	2	70%	103	Underground Works	-25	79	
Water Pump (Electric)		CNP 281	2	100%	88	Underground Works	-25	66	
Rock Drill, Hand-held (Pneumatic)		CNP 183	1	70%	116	Underground Works	-25	89	
Grout pump		CNP 106	1	70%	105	Underground Works	-25	78	
							-25	0	
4.7	Fitting out								
	Cutter circular, steel (electric)	CNP 056	2	50%	112	Underground Works	-25	87	
	Hoist, Passenger/Material (Electric)	CNP 122	2	70%	95	Underground Works	-25	71	
	Jig-saw, hand-held, wood (electric)	CNP 131	2	50%	99	Underground Works	-25	74	
	Drill, Precussive, Hand-held (Electric)	CNP 064	2	70%	103	Underground Works	-25	79	
	Ventilation Fan	CNP 241	3	100%	108	Underground Works	-25	88	
								-25	91

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ID	PME	CNP	No. of Item	% on time	SWL, dB(A)	Mitigation Measures	Attenuation	Total SWL, dB(A)
5. (CH6559 - CH6629) Launching Shaft								
5.1	Construction of Diaphragm Wall (including excavation, rebar cage installation & concreting) for entire launching shaft							
	Piling, Diaphragm Wall, Bentonite Filtering Plant	CNP 162	1	70%	105	Nil		103
	Piling, Diaphragm Wall, Hydraulic Extractor	CNP 163	4	70%	90	Nil		94
	Crane, Mobile/Barge Mounted (diesel)	CNP 048	4	50%	112	Nil		115
	Bar Bender and Cutter (Electric)	CNP 021	1	50%	90	Nil		87
	Concrete Lorry Mixer	CNP 044	4	70%	109	Nil		113
	Dump Truck, gross vehicle weight > 38 tonne	CNP 067	4	30%	117	Nil		118
	Generator, Silenced, 75 dB(A) at 7m	CNP 102	1	100%	100	Nil		100
	Water Pump (Electric)	CNP 281	2	100%	88	Nil		91
Total:								121
5.2	Bulk excavation & ELS installation to final tunnel formation level							
	Excavator/Loader, Wheeled/Tracked	CNP 081	2	70%	112	Nil		113
	Excavator/Loader, Wheeled/Tracked	CNP 081	2	70%	112	Trench Work Correction	-10	103
	Crane, Mobile/Barge Mounted (diesel)	CNP 048	2	50%	112	Nil		112
	Dump Truck, gross vehicle weight > 38 tonne	CNP 067	4	30%	117	Nil		118
	Generator, Silenced, 75 dB(A) at 7m	CNP 102	1	100%	100	Nil		100
	Water Pump, Submersible (Electric)	CNP 283	4	100%	85	Nil		91
	Breaker, Hand-held. Mass >= 20 kg and <= 35 kg	CNP 025	2	50%	111	Nil		111
Total:								121
5.3	Launching Shaft Structure Construction (including rebar fixing & concreting)							
	Rebar Fixing							
	Crane, Mobile/Barge Mounted (diesel)	CNP 048	2	50%	112	Nil		112
	Air Compressor, Air flow >10m3/min and <=30 m3/min	CNP 002	2	100%	102	Nil		105
	Breaker, Hand-held. Mass >= 20 kg and <= 35 kg	CNP 025	4	50%	111	Trench Work Correction	-10	104
	Generator, Silenced, 75 dB(A) at 7m	CNP 102	1	100%	100	Nil		100
	Bar Bender and Cutter (Electric)	CNP 021	1	50%	90	Nil		87
	Saw, Circular, Wood	CNP 201	4	50%	108	Nil		111
	Water Pump, Submersible (Electric)	CNP 283	4	100%	85	Nil		91
Total:								115
	Concreting							
	Poker, Vibratory, Hand-held	CNP 170	2	50%	113	Nil		113
	Concrete Lorry Mixer	CNP 044	6	70%	109	Nil		115
Total:								117
5.4	Partial soil backfilling							
	Excavator/Loader, Wheeled/Tracked	CNP 081	2	70%	112	Nil		113
	Dump Truck, gross vehicle weight > 38 tonne	CNP 067	4	30%	117	Nil		118
	Roller, Vibratory	CNP 186	1	50%	108	Nil		105
Total:								119
5.5	Soil backfilling up to future ground formation level							
	Excavator/Loader, Wheeled/Tracked	CNP 081	2	70%	112	Nil		113
	Dump Truck, gross vehicle weight > 38 tonne	CNP 067	4	30%	117	Nil		118
	Roller, Vibratory	CNP 186	1	50%	108	Nil		105
Total:								119
6. (CH6050 - CH6445) Cut-and-Cover Tunnel Section (1st Cell with ventilation audit)								
6.1	Construction of Diaphragm Wall (including excavation, rebar cage installation & concreting) each 100m							
	Piling, Diaphragm Wall, Bentonite Filtering Plant	CNP 162	1	70%	105	Nil		103
	Piling, Diaphragm Wall, Hydraulic Extractor	CNP 163	4	70%	90	Nil		94
	Crane, Mobile/Barge Mounted (diesel)	CNP 048	4	50%	112	Nil		115
	Bar Bender and Cutter (Electric)	CNP 021	1	50%	90	Nil		87
	Concrete Lorry Mixer	CNP 044	4	70%	109	Nil		113
	Dump Truck, gross vehicle weight > 38 tonne	CNP 067	4	30%	117	Nil		118
	Generator, Silenced, 75 dB(A) at 7m	CNP 102	1	100%	100	Nil		100
	Water Pump (Electric)	CNP 281	2	100%	88	Nil		91
Total:								121
6.2	Bulk excavation & ELS installation to final tunnel formation level each section i.e. 50m							
	Excavator/Loader, Wheeled/Tracked	CNP 081	2	70%	112	Nil		113
	Excavator/Loader, Wheeled/Tracked	CNP 081	2	70%	112	Trench Work Correction	-10	103
	Crane, Mobile/Barge Mounted (diesel)	CNP 048	2	50%	112	Nil		112
	Dump Truck, gross vehicle weight > 38 tonne	CNP 067	4	30%	117	Nil		118
	Generator, Silenced, 75 dB(A) at 7m	CNP 102	1	100%	100	Nil		100
	Water Pump, Submersible (Electric)	CNP 283	2	100%	85	Nil		88
Total:								120

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ID	PME	CNP	No. of Item	% on time	SWL, dB(A)	Mitigation Measures	Attenuation	Total SWL, dB(A)	
8. SA Ventilation Building									
8.1	Piling Works (Pre-bored H-piles)								
	Air Compressor, Air flow >10m3/min and <=30 m3/min	CNP 002	2	100%	102	Nil		105	
	Drill rig, rotary type (diesel)	CNP 072	2	70%	110	Nil		111	
	Crane, Mobile/Barge Mounted (diesel)	CNP 048	2	50%	112	Nil		112	
	Generator, Silenced, 75 dB(A) at 7m	CNP 102	1	100%	100	Nil		100	
	Concrete Lorry Mixer	CNP 044	2	70%	109	Nil		110	
Total:								117	
8.2	Excavation with ELS (sheetpile) for construction of pilecap								
	Piling, vibrating hammer	CNP 172	2	70%	115	Nil		116	
	Excavator/Loader, Wheeled/Tracked	CNP 081	2	70%	112	Nil		113	
	Dump Truck, gross vehicle weight > 38 tonne	CNP 067	2	30%	117	Nil		115	
Total:								120	
8.3	Construction of Pilecap & Ventilation Building Structure (including rebar fixing & concreting)								
	Rebar Fixing								
	Crane, Mobile/Barge Mounted (diesel)	CNP 048	2	50%	112	Nil		112	
	Air Compressor, Air flow >10m3/min and <=30 m3/min	CNP 002	1	100%	102	Nil		102	
	Breaker, Hand-held, Mass >= 20 kg and <= 35 kg	CNP 025	1	50%	111	Nil		108	
	Generator, Silenced, 75 dB(A) at 7m	CNP 102	1	100%	100	Nil		100	
	Bar Bender and Cutter (Electric)	CNP 021	1	50%	90	Nil		87	
	Saw, Circular, Wood	CNP 201	2	50%	108	Nil		108	
									115
	Concreting								
	Poker, Vibratory, Hand-held	CNP 170	2	50%	113	Nil		113	
	Concrete Lorry Mixer	CNP 044	6	70%	109	Nil		115	
	Total:								117
9. (CH5880 - CH6050) Depressed Road Section									
9.1	Site formation (Breaking of existing concrete pavement, Sheet-piling)								
	Piling, vibrating hammer	CNP 172	2	70%	115	Nil		116	
	Excavator/Loader, Wheeled/Tracked	CNP 081	4	70%	112	Nil		116	
	Dump Truck, gross vehicle weight > 38 tonne	CNP 067	4	30%	117	Nil		118	
	Roller, Vibratory	CNP 186	1	50%	108	Nil		105	
Total:								122	
9.2	Excavation with ELS								
	Excavator/Loader, Wheeled/Tracked	CNP 081	4	70%	112	Nil		116	
	Crane, Mobile/Barge Mounted (diesel)	CNP 048	3	50%	112	Nil		114	
	Dump Truck, gross vehicle weight > 38 tonne	CNP 067	4	30%	117	Nil		118	
	Generator, Silenced, 75 dB(A) at 7m	CNP 102	2	100%	100	Nil		103	
	Water Pump, Submersible (Electric)	CNP 283	2	100%	85	Nil		88	
Total:								121	
9.3	Construction of structures								
	Crane, Mobile/Barge Mounted (diesel)	CNP 048	3	50%	112	Nil		114	
	Air Compressor, Air flow >10m3/min and <=30 m3/min	CNP 002	2	100%	102	Nil		105	
	Breaker, Hand-held, Mass >= 20 kg and <= 35 kg	CNP 025	2	50%	111	Nil		111	
	Generator, Silenced, 75 dB(A) at 7m	CNP 102	1	100%	100	Nil		100	
	Poker, Vibratory, Hand-held	CNP 170	2	50%	113	Nil		113	
	Bar Bender and Cutter (Electric)	CNP 021	1	50%	90	Nil		87	
	Saw, Circular, Wood	CNP 201	2	50%	108	Nil		108	
	Concrete Lorry Mixer	CNP 044	6	70%	109	Nil		115	
Total:								120	
10. (CH5250 - CH5880) At-Grade Road Section									
10.1	Site formation (Breaking of existing concrete pavement & Excavation)								
	Excavator/Loader, Wheeled/Tracked	CNP 081	4	70%	112	Nil		116	
	Dump Truck, gross vehicle weight > 38 tonne	CNP 067	6	30%	117	Nil		120	
	Roller, Vibratory	CNP 186	1	50%	108	Nil		105	
Total:								121	
10.2	Construction of underground drainage system & utilities (including trench excavation, pipe/utilities installation, in-situ casting of gully/manholes/drawpit & backfilling)								
	Excavator/Loader, Wheeled/Tracked	CNP 081	4	70%	112	Nil		116	
	Crane, Mobile/Barge Mounted (diesel)	CNP 048	2	50%	112	Nil		112	
	Power Rammer (Petrol)	CNP 169	2	70%	108	Nil		109	
Total:								118	

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Plant Inventory

Unmitigated Scenario

ID	PME	CNP	No. of Item	% on time	SWL, dB(A)	Mitigation Measures	Attenuation	Total SWL, dB(A)	
10.3	Construction of Road Carriageway								
	Crane, Mobile/Barge Mounted (diesel)	CNP 048	4	50%	112	Nil		115	
	Excavator/Loader, Wheeled/Tracked	CNP 081	4	70%	112	Nil		116	
	Concrete Lorry Mixer	CNP 044	2	70%	109	Nil		110	
	Asphalt Paver	CNP 004	1	70%	109	Nil		107	
	Dump Truck, gross vehicle weight > 38 tonne	CNP 067	4	30%	117	Nil		118	
	Road Roller	CNP 185	1	70%	108	Nil		106	
	Breaker, Hand-held. Mass >= 20 kg and <= 35 kg	CNP 025	2	50%	111	Nil		111	
	Air Compressor, Air flow >10m3/min and <=30 m3/min	CNP 002	2	100%	102	Nil		105	
	Generator, Silenced, 75 dB(A) at 7m	CNP 102	2	100%	100	Nil		103	
	Drill, Percussive, Hand-held (Electric)	CNP 064	2	70%	103	Nil		104	
							Total:	123	
11. (CH6445 - CH6559) Cut-and-Cover Tunnel Section (both cells)									
11.1	Construction of Diaphragm Wall (including excavation, rebar cage installation & concreting) for entire section								
	Piling, Diaphragm Wall, Bentonite Filtering Plant	CNP 162	1	70%	105	Nil		103	
	Piling, Diaphragm Wall, Hydraulic Extractor	CNP 163	4	70%	90	Nil		94	
	Crane, Mobile/Barge Mounted (diesel)	CNP 048	4	50%	112	Nil		115	
	Bar Bender and Cutter (Electric)	CNP 021	1	50%	90	Nil		87	
	Concrete Lorry Mixer	CNP 044	4	70%	109	Nil		113	
	Dump Truck, gross vehicle weight > 38 tonne	CNP 067	3	30%	117	Nil		117	
	Generator, Silenced, 75 dB(A) at 7m	CNP 102	1	100%	100	Nil		100	
	Water Pump (Electric)	CNP 281	2	100%	88	Nil		91	
								Total:	120
	11.2	Bulk excavation & ELS installation to final tunnel formation level							
Excavator/Loader, Wheeled/Tracked		CNP 081	2	70%	112	Nil		113	
Excavator/Loader, Wheeled/Tracked		CNP 081	2	70%	112	Trench Work Correction	-10	103	
Crane, Mobile/Barge Mounted (diesel)		CNP 048	4	50%	112	Nil		115	
Dump Truck, gross vehicle weight > 38 tonne		CNP 067	4	30%	117	Nil		118	
Generator, Silenced, 75 dB(A) at 7m		CNP 102	1	100%	100	Nil		100	
Water Pump, Submersible (Electric)		CNP 283	4	100%	85	Nil		91	
Roller, Vibratory		CNP 186	1	50%	108	Nil		105	
							Total:	121	
11.3	Tunnel Structure Construction (including rebar fixing & concreting)								
	Rebar Fixing								
	Crane, Mobile/Barge Mounted (diesel)	CNP 048	4	50%	112	Nil		115	
	Air Compressor, Air flow >10m3/min and <=30 m3/min	CNP 002	2	100%	102	Nil		105	
	Breaker, Hand-held. Mass >= 20 kg and <= 35 kg	CNP 025	2	50%	111	Nil		111	
	Breaker, Hand-held. Mass >= 20 kg and <= 35 kg	CNP 025	2	50%	111	Trench Work Correction	-10	101	
	Generator, Silenced, 75 dB(A) at 7m	CNP 102	1	100%	100	Nil		100	
	Bar Bender and Cutter (Electric)	CNP 021	1	50%	90	Nil		87	
	Saw, Circular, Wood	CNP 201	2	50%	108	Nil		108	
	Water Pump, Submersible (Electric)	CNP 283	2	100%	85	Nil		88	
								Total:	117
	Concreting								
	Poker, Vibratory, Hand-held	CNP 170	2	50%	113	Nil		113	
	Concrete Lorry Mixer	CNP 044	6	70%	109	Nil		115	
								Total:	117
	11.4	Soil backfilling up to future ground formation level							
Excavator/Loader, Wheeled/Tracked		CNP 081	4	70%	112	Nil		116	
Dump Truck, gross vehicle weight > 38 tonne		CNP 067	4	30%	117	Nil		118	
Roller, Vibratory		CNP 186	1	50%	108	Nil		105	
							Total:	120	
12. (CH8680 - CH8767) Reception Shaft									
12.1	Construction of Diaphragm Wall (including excavation, rebar cage installation & concreting) for entire reception shaft								
	Piling, Diaphragm Wall, Bentonite Filtering Plant	CNP 162	2	70%	105	Nil		106	
	Piling, Diaphragm Wall, Hydraulic Extractor	CNP 163	4	70%	90	Nil		94	
	Crane, Mobile/Barge Mounted (diesel)	CNP 048	4	50%	112	Nil		115	
	Bar Bender and Cutter (Electric)	CNP 021	1	50%	90	Nil		87	
	Concrete Lorry Mixer	CNP 044	4	70%	109	Nil		113	
	Dump Truck, gross vehicle weight > 38 tonne	CNP 067	4	30%	117	Nil		118	
	Generator, Silenced, 75 dB(A) at 7m	CNP 102	1	100%	100	Nil		100	
	Water Pump (Electric)	CNP 281	2	100%	88	Nil		91	
							Total:	121	
12.2	Bulk excavation & ELS installation to final tunnel formation level								
	Excavator/Loader, Wheeled/Tracked	CNP 081	4	70%	112	Nil		116	
	Excavator/Loader, Wheeled/Tracked	CNP 081	2	70%	112	Trench Work Correction	-10	103	
	Crane, Mobile/Barge Mounted (diesel)	CNP 048	4	50%	112	Nil		115	
	Dump Truck, gross vehicle weight > 38 tonne	CNP 067	4	30%	117	Nil		118	
	Generator, Silenced, 75 dB(A) at 7m	CNP 102	1	100%	100	Nil		100	
	Water Pump, Submersible (Electric)	CNP 283	4	100%	85	Nil		91	
							Total:	121	

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12.3	Shaft Structure Construction (including rebar fixing & concreting)							
	Rebar Fixing							
	Crane, Mobile/Barge Mounted (diesel)	CNP 048	4	50%	112	Nil		115
	Air Compressor, Air flow >10m3/min and <=30 m3/min	CNP 002	2	100%	102	Nil		105
	Breaker, Hand-held. Mass >= 20 kg and <= 35 kg	CNP 025	4	50%	111	Nil		114
	Generator, Silenced, 75 dB(A) at 7m	CNP 102	1	100%	100	Nil		100
	Bar Bender and Cutter (Electric)	CNP 021	1	50%	90	Nil		87
	Saw, Circular, Wood	CNP 201	2	50%	108	Nil		108
	Water Pump, Submersible (Electric)	CNP 283	2	100%	85	Nil		88
								118
	Concreting							
	Poker, Vibratory, Hand-held	CNP 170	2	50%	113	Nil		113
	Concrete Lorry Mixer	CNP 044	6	70%	109	Nil		115
	Total:							117
	12.4	Soil backfilling up to future ground formation level						
Excavator/Loader, Wheeled/Tracked		CNP 081	4	70%	112	Nil		116
Dump Truck, gross vehicle weight > 38 tonne		CNP 067	4	30%	117	Nil		118
Roller, Vibratory		CNP 186	1	50%	108	Nil		105
Total:							120	
12.5	Cut-and-cover tunnel finishing works							
	Crane, Mobile/Barge Mounted (diesel)	CNP 048	2	50%	112	Nil		112
	Generator, Silenced, 75 dB(A) at 7m	CNP 102	2	100%	100	Nil		103
	Drill, Precussive, Hand-held (Electric)	CNP 064	4	70%	103	Nil		107
Total:							114	
13. Site Formation works at Cha Kwo Ling PCA								
13	Site Formation works at Cha Kwo Ling PCA							
	Crane, Mobile/Barge Mounted (diesel)	CNP 048	4	50%	112	Nil		115
	Air Compressor, Air flow >10m3/min and <=30 m3/min	CNP 002	2	100%	102	Nil		105
	Breaker, Hand-held. Mass >= 20 kg and <= 35 kg	CNP 025	4	50%	111	Nil		114
	Generator, Silenced, 75 dB(A) at 7m	CNP 102	1	100%	100	Nil		100
	Bar Bender and Cutter (Electric)	CNP 021	1	50%	90	Nil		87
	Saw, Circular, Wood	CNP 201	2	50%	108	Nil		108
	Concrete Lorry Mixer	CNP 044	4	70%	109	Nil		113
Total:							120	
14. CKL Ventilation Building								
14.1	Handover of Lam Tin Site Formation							
	No plants required.							
14.2	Piling Works							
	Air Compressor, Air flow >10m3/min and <=30 m3/min	CNP 002	2	100%	102	Nil		105
	Drill rig, rotary type (diesel)	CNP 072	2	70%	110	Nil		111
	Crane, Mobile/Barge Mounted (diesel)	CNP 048	4	50%	112	Nil		115
	Generator, Silenced, 75 dB(A) at 7m	CNP 102	1	100%	100	Nil		100
	Concrete Lorry Mixer	CNP 044	4	70%	109	Nil		113
Total:							119	
14.3	Excavation with ELS for construction of pilecap							
	Piling, vibrating hammer	CNP 172	2	70%	115	Nil		116
	Excavator/Loader, Wheeled/Tracked	CNP 081	4	70%	112	Nil		116
	Dump Truck, gross vehicle weight > 38 tonne	CNP 067	4	30%	117	Nil		118
Total:							122	
14.4	Construction of Pilecap & Ventilation Building Structure							
	Crane, Mobile/Barge Mounted (diesel)	CNP 048	4	50%	112	Nil		115
	Air Compressor, Air flow >10m3/min and <=30 m3/min	CNP 002	2	100%	102	Nil		105
	Breaker, Hand-held. Mass >= 20 kg and <= 35 kg	CNP 025	4	50%	111	Nil		114
	Generator, Silenced, 75 dB(A) at 7m	CNP 102	1	100%	100	Nil		100
	Poker, Vibratory, Hand-held	CNP 170	2	50%	113	Nil		113
	Bar Bender and Cutter (Electric)	CNP 021	1	50%	90	Nil		87
	Saw, Circular, Wood	CNP 201	2	50%	108	Nil		108
	Concrete Lorry Mixer	CNP 044	6	70%	109	Nil		115
	Total:							121

Appendix 5C

CE 38/2008(HY)

Kai Tak Development - Trunk Road T2 and Infrastructure at South Apron

Investigation, Design and Construction

Plant Inventory

Unmitigated Scenario

ID	PME	CNP	No. of Item	% on time	SWL, dB(A)	Mitigation Measures	Attenuation	Total SWL, dB(A)
15. Construct Barging Point at South Apron								
15	Construct Barging Point at South Apron							
	Crane, Mobile/Barge Mounted (diesel)	CNP 048	1	50%	112	Nil		109
	Air Compressor, Air flow >10m3/min and <=30 m3/min	CNP 002	1	100%	102	Nil		102
	Breaker, Hand-held, Mass >= 20 kg and <= 35 kg	CNP 025	2	50%	111	Nil		111
	Generator, Silenced, 75 dB(A) at 7m	CNP 102	1	100%	100	Nil		100
	Bar Bender and Cutter (Electric)	CNP 021	1	50%	90	Nil		87
	Saw, Circular, Wood	CNP 201	2	50%	108	Nil		108
	Concrete Lorry Mixer	CNP 044	2	70%	109	Nil		110
Total:								116
16. Export existing fill material from WA4								
16.1 Excavator at WA 4								
	Excavator/Loader, Wheeled/Tracked	CNP 081	2	70%	112	Nil		113
								113
16.2 Truck Traffic at Haul Road*								
	Dump Truck, gross vehicle weight > 38 tonne	CNP 067	12	--	117			82
								82
16.3 Barge Operation at Barging Point								
	Derrick Barge	CNP 061	1	30%	104	Nil		99
								99
17. TCSS and Finishes								
17	TCSS and Finishes							
	Crane, Mobile/Barge Mounted (diesel)	CNP 048	4	50%	112	Nil		115
	Lorry, 5.5 tonne < gross vehicle weight <= 38 tonne	CNP 142	4	30%	105	Nil		106
	Generator, Silenced, 75 dB(A) at 7m	CNP 102	1	100%	100	Nil		100
	Drill, Precussive, Hand-held (Electric)	CNP 064	4	70%	103	Nil		107
Total:								116
18. Installation of Signages & Road Painting								
18	Installation of Signages & Road Painting							
	Crane, Mobile/Barge Mounted (diesel)	CNP 048	4	50%	112	Nil		115
	Lorry, 5.5 tonne < gross vehicle weight <= 38 tonne	CNP 142	4	30%	105	Nil		106
	Generator, Silenced, 75 dB(A) at 7m	CNP 102	1	100%	100	Nil		100
	Drill, Precussive, Hand-held (Electric)	CNP 064	4	70%	103	Nil		107
	Paint Line Marker	CNP 161	2	50%	90	Nil		90
Total:								116
19. Surfacing Works								
19	Surfacing Works							
	Air Compressor, Air flow >10m3/min and <=30 m3/min	CNP 002	2	100%	102	Nil		105
	Breaker, Hand-held, Mass >= 20 kg and <= 35 kg	CNP 025	4	50%	111	Nil		114
	Asphalt Paver	CNP 004	1	70%	109	Nil		107
	Road Roller	CNP 185	2	70%	108	Nil		109
Total:								116
20. Testing and Commissioning								
20	Fitting Out							
	Crane, Mobile/Barge Mounted (diesel)	CNP 048	1	50%	112	Nil		109
	Generator, Silenced, 75 dB(A) at 7m	CNP 102	1	100%	100	Nil		100
	Drill, Precussive, Hand-held (Electric)	CNP 064	1	70%	103	Nil		101
Total:								110

*Assessment was made reference to BS 5228 Section F2.5 Method for mobile plant using a regular well-defined route (e.g. haul roads)