

PME	TM or other reference	No. of PME	SWL, dB(A)/ unit	% on time	Total SWL, dB(A)
<b>Advance Works</b>					
<b>Activity 1 Mobilisation, site set up, tree removal</b>					
Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	3	102	100%	107
Breaker, hand-held, mass >= 20kg and <= 35kg	CNP 025	3	111	50%	113
Excavator/ loader, wheeled/ tracked	CNP 081	3	112	50%	114
Concrete lorry mixer	CNP 044	2	109	20%	105
Poker, vibratory, hand-held	CNP 170	2	113	20%	109
Crane, mobile/ barge mounted (diesel)	CNP 048	1	112	60%	110
Lorry with crane/grab	CNP 145	2	105	70%	106
Generator, silenced, 75 dB(A) at 7 m	CNP 102	2	100	100%	103
				<b>Total</b>	<b>119</b>
<b>Activity 2 Demolition of Entrance e, Footbridge stairs, LCSD staff room</b>					
Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	3	102	100%	107
Breaker, hand-held, mass >= 20kg and <= 35kg	CNP 025	6	111	60%	117
Breaker, excavator mounted (pneumatic)	CNP 027	3	122	60%	125
Crane, mobile/ barge mounted (diesel)	CNP 048	1	112	60%	110
Lorry with crane/grab	CNP 145	2	105	60%	106
Generator, silenced, 75 dB(A) at 7 m	CNP 102	2	100	100%	103
Concrete lorry mixer	CNP 044	1	109	20%	102
Poker, vibratory, hand-held	CNP 170	2	113	20%	109
				<b>Total</b>	<b>126</b>
<b>Activity 3 Works Area preparation: strip soil, instant wells, instrumentation</b>					
Excavator/ loader, wheeled/ tracked	CNP 081	3	112	70%	115
Lorry	CNP 141	3	112	50%	114
Welder/ Generation (silenced)	CNP 002	3	102	100%	107
Breaker, hand-held, mass >= 20kg and <= 35kg	CNP 025	3	111	30%	111
Drill rig, rotary type (diesel)	CNP 072	3	110	70%	113
Water pump (electric)	CNP 281	4	88	50%	91
Concrete lorry mixer	CNP 044	1	109	20%	102
Poker, vibratory, hand-held	CNP 170	1	113	20%	106
Generator, silenced, 75 dB(A) at 7 m	CNP 102	1	100	100%	100
				<b>Total</b>	<b>120</b>
<b>Activity 4 Ground Investigation</b>					
Drill rig, rotary type (diesel)	CNP 072	2	110	70%	111
Water pump (petrol)	CNP 282	2	103	50%	103
Grout mixer	CNP 105	1	90	20%	83
Grout pump	CNP 106	1	105	20%	98
				<b>Total</b>	<b>112</b>
<b>Activity 5 Cavern access shaft pipe piles</b>					
Piling, large diameter bored, reverse circulation drill	CNP 166	3	100	70%	103
Crane, mobile/ barge mounted (diesel)	CNP 048	2	112	50%	112
Generator, silenced, 75 dB(A) at 7 m	CNP 102	3	100	30%	100
Drill rig, rotary type (diesel)	CNP 072	3	110	20%	108
Grout mixer	CNP 105	3	90	20%	88
Grout pump	CNP 106	3	105	20%	103
Water pump (electric)	CNP 281	4	88	20%	87
Generator, silenced, 75 dB(A) at 7 m	CNP 102	1	100	100%	100
				<b>Total</b>	<b>114</b>
<b>Activity 6 Temporary lateral support</b>					
Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	1	102	100%	102
Breaker, hand-held, mass >= 20kg and <= 35kg	CNP 025	2	111	50%	111
Mini backhoe	CNP 082	1	94	50%	91
Lorry with crane/grab	CNP 145	1	105	30%	100
Concrete lorry mixer	CNP 044	1	109	20%	102
Poker, vibratory, hand-held	CNP 170	2	113	20%	109
Piling, large diameter bored, reverse circulation drill	CNP 166	1	100	70%	98
Crane, mobile/ barge mounted (diesel)	CNP 048	1	112	50%	109
Drill rig, rotary type (diesel)	CNP 072	1	110	20%	103
Generator, silenced, 75 dB(A) at 7 m	CNP 102	1	100	30%	95
Grout mixer	CNP 105	1	90	20%	83
Grout pump	CNP 106	1	105	20%	98
Water pump (electric)	CNP 281	1	88	20%	81
Generator, silenced, 75 dB(A) at 7 m	CNP 102	1	100	100%	100
				<b>Total</b>	<b>116</b>
<b>Activity 7 CITIC pier underpinning H-piles</b>					
Piling, large diameter bored, reverse circulation drill	CNP 166	2	100	70%	101
Crane, mobile/ barge mounted (diesel)	CNP 048	2	112	50%	112
Generator, silenced, 75 dB(A) at 7 m	CNP 102	2	100	30%	98
Grout mixer	CNP 105	2	90	20%	86
Grout pump	CNP 106	2	105	20%	101
				<b>Total</b>	<b>113</b>

PME	TM or other reference	No. of PME	SWL, dB(A)/ unit	% on time	Total SWL, dB(A)
<b>Activity 8 Diaphragm wall</b>					
Piling, diaphragm wall, bentonite filtering plant	CNP 162	1	105	100%	105
Piling, diaphragm wall, hydraulic extractor	CNP 163	1	90	20%	83
Crane, mobile/ barge mounted (diesel)	CNP 048	3	112	70%	115
Lorry	CNP 141	3	112	70%	115
Grout mixer	CNP 105	1	90	50%	87
Grout pump	CNP 106	1	105	50%	102
Bar bender and cutter (electric)	CNP 021	2	90	100%	93
Concrete lorry mixer	CNP 044	1	109	20%	102
Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	1	102	100%	102
Generator, silenced, 75 dB(A) at 7 m	CNP 102	1	100	100%	100
				<b>Total</b>	<b>119</b>
<b>Main Works</b>					
<b>Activity 1 Mobilisation and site set up</b>					
Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	2	102	100%	105
Breaker, hand-held, mass >= 20kg and <= 35kg	CNP 025	2	111	30%	109
Excavator/ loader, wheeled/ tracked	CNP 081	2	112	30%	110
Concrete lorry mixer	CNP 044	2	109	30%	107
Poker, vibratory, hand-held	CNP 170	4	113	30%	114
Crane, mobile/ barge mounted (diesel)	CNP 048	2	112	70%	113
Lorry with crane/grab	CNP 145	4	105	70%	109
Generator, silenced, 75 dB(A) at 7 m	CNP 102	2	100	100%	103
				<b>Total</b>	<b>119</b>
<b>Activity 2 Cavern Access Shaft: Excavation in soft, Strutting and Decking</b>					
Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	2	102	100%	105
Breaker, hand-held, mass >= 20kg and <= 35kg	CNP 025	4	111	50%	114
Excavator/ loader, wheeled/ tracked	CNP 081	4	112	50%	115
Mini backhoe	CNP 082	3	94	50%	96
Lorry	CNP 141	4	112	50%	115
Crane, mobile/ barge mounted (diesel)	CNP 048	3	112	60%	115
Generator, silenced, 75 dB(A) at 7 m	CNP 102	4	100	60%	104
Ventilation fan	CNP 241	3	108	100%	113
Piling, large diameter bored, reverse circulation drill	CNP 166	1	100	70%	98
Crane, mobile/ barge mounted (diesel)	CNP 048	1	112	50%	109
Drill rig, rotary type (diesel)	CNP 072	1	110	20%	103
Generator, silenced, 75 dB(A) at 7 m	CNP 102	1	100	30%	95
Grout mixer	CNP 105	1	90	20%	83
Grout pump	CNP 106	1	105	20%	98
Water pump (electric)	CNP 281	1	88	20%	81
Generator, silenced, 75 dB(A) at 7 m	CNP 102	1	100	100%	100
				<b>Total</b>	<b>122</b>
<b>Activity 3 CITIC piers C2 and C3 underpinning</b>					
Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	2	102	100%	105
Breaker, hand-held, mass >= 20kg and <= 35kg	CNP 025	4	111	60%	115
Breaker, excavator mounted (pneumatic)	CNP 027	2	122	60%	123
Excavator/ loader, wheeled/ tracked	CNP 081	1	112	40%	108
Mini backhoe	CNP 082	1	94	50%	91
Lorry	CNP 141	4	112	20%	111
Crane, mobile/ barge mounted (diesel)	CNP 048	2	112	80%	114
Concrete lorry mixer	CNP 044	1	109	20%	102
Poker, vibratory, hand-held	CNP 170	2	113	20%	109
Generator, silenced, 75 dB(A) at 7 m	CNP 102	3	100	70%	103
				<b>Total</b>	<b>124</b>
<b>Activity 4 Cavern Access Shaft : Excavation in rock under deck</b>					
Breaker, excavator mounted (pneumatic)	CNP 027	3	122	30%	122
Rock Drill	TNS EIA*	3	108	30%	108
Burster	CNP 051	3	90	30%	90
Excavator/ loader, wheeled/ tracked	CNP 081	2	112	70%	113
Mini backhoe	CNP 082	2	94	70%	95
Lorry with crane/grab	CNP 145	4	105	70%	109
Ventilation fan	CNP 241	4	108	100%	114
Hoist, passenger/ material (electric)	CNP 122	1	95	100%	95
Winch (electric)	CNP 262	4	95	100%	101
Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	2	102	100%	105
Water pump (electric)	CNP 281	6	88	100%	96
Generator, silenced, 75 dB(A) at 7 m	CNP 102	2	100	100%	103
				<b>Total</b>	<b>123</b>
<b>Activity 5 Demolish ADD and Entrance E below ground</b>					
Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	2	102	100%	105
Breaker, hand-held, mass >= 20kg and <= 35kg	CNP 025	4	111	80%	116
Breaker, excavator mounted (pneumatic)	CNP 027	5	122	80%	128
Crane, mobile/ barge mounted (diesel)	CNP 048	3	112	50%	114
Lorry with crane/grab	CNP 145	3	105	30%	105
Water pump (electric)	CNP 281	2	88	100%	91
Generator, silenced, 75 dB(A) at 7 m	CNP 102	2	100	100%	103
				<b>Total</b>	<b>128</b>

PME	TM or other reference	No. of PME	SWL, dB(A)/ unit	% on time	Total SWL, dB(A)
<b>Activity 6 Cut-and-cover box: King posts</b>					
Piling, large diameter bored, reverse circulation drill	CNP 166	3	100	70%	103
Crane, mobile/ barge mounted (diesel)	CNP 048	3	112	50%	114
Generator, silenced, 75 dB(A) at 7 m	CNP 102	3	100	30%	100
Grout mixer	CNP 105	3	90	20%	88
Grout pump	CNP 106	3	105	20%	103
				<b>Total</b>	<b>115</b>
<b>Activity 7 Strutting and decking at ground level</b>					
Crane, mobile/ barge mounted (diesel)	CNP 048	6	112	70%	118
Generator, silenced, 75 dB(A) at 7 m	CNP 102	6	100	80%	107
				<b>Total</b>	<b>119</b>
<b>Activity 8 Bulk excavation in soft incl strutting</b>					
Crane, mobile/ barge mounted (diesel)	CNP 048	4	112	70%	116
Excavator/ loader, wheeled/ tracked	CNP 081	6	112	70%	118
Lorry with crane/grab	CNP 145	4	105	30%	106
Generator, silenced, 75 dB(A) at 7 m	CNP 102	6	100	80%	107
Water pump (electric)	CNP 281	6	88	100%	96
				<b>Total</b>	<b>121</b>
<b>Activity 9 Bulk excavation in mixed ground incl strutting</b>					
Breaker, excavator mounted (pneumatic)	CNP 027	5	122	50%	126
Rock Drill	TNS EIA*	3	108	50%	110
Rock drill, hand-held (pneumatic)	CNP 183	5	116	50%	120
Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	2	102	100%	105
Burster	CNP 051	3	90	50%	92
Generator, silenced, 75 dB(A) at 7 m	CNP 102	2	100	100%	103
Excavator/ loader, wheeled/ tracked	CNP 081	6	112	50%	117
Crane, mobile/ barge mounted (diesel)	CNP 048	4	112	50%	115
Generator, silenced, 75 dB(A) at 7 m	CNP 102	6	100	70%	106
Water pump (electric)	CNP 281	6	88	100%	96
				<b>Total</b>	<b>128</b>
<b>Activity 10 Bulk excavation in rock, no strutting</b>					
Breaker, excavator mounted (pneumatic)	CNP 027	10	122	80%	131
Rock Drill	TNS EIA*	5	108	80%	114
Burster	CNP 051	5	90	80%	96
Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	4	102	100%	108
Excavator/ loader, wheeled/ tracked	CNP 081	4	112	30%	113
Crane, mobile/ barge mounted (diesel)	CNP 048	4	112	30%	113
Generator, silenced, 75 dB(A) at 7 m	CNP 102	2	100	100%	103
Water pump (electric)	CNP 281	6	88	100%	96
				<b>Total</b>	<b>131</b>
<b>Activity 11 Station Cut-and-cover box</b>					
Crane, tower (electric)	CNP 049	2	95	100%	98
Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	4	102	100%	108
Generator, silenced, 75 dB(A) at 7 m	CNP 102	4	100	100%	106
Ventilation fan	CNP 241	4	108	100%	114
Hoist, passenger/ material (electric)	CNP 122	1	95	100%	95
Concrete pump, stationary/ lorry mounted	CNP 047	2	109	50%	109
Concrete lorry mixer	CNP 044	6	109	50%	114
Poker, vibratory, hand-held	CNP 170	6	113	50%	118
Chipper, hand-held (pneumatic)	CNP 043	4	112	20%	111
Bar bender and cutter (electric)	CNP 021	3	90	100%	95
Saw, circular, wood	CNP 201	2	108	100%	111
Crane, mobile/ barge mounted (diesel)	CNP 048	2	112	80%	114
				<b>Total</b>	<b>123</b>
<b>Activity 12 Station Fit out</b>					
Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	4	102	100%	108
Generator, silenced, 75 dB(A) at 7 m	CNP 102	4	100	100%	106
Ventilation fan	CNP 241	4	108	100%	114
Hoist, passenger/ material (electric)	CNP 122	1	95	100%	95
Crane, mobile/ barge mounted (diesel)	CNP 048	2	112	50%	112
				<b>Total</b>	<b>117</b>
<b>Activity 13 Surface equipment serving cavern and tunnels</b>					
Ventilation fan	CNP 241	4	108	100%	114
Hoist, passenger/ material (electric)	CNP 122	1	95	100%	95
Winch (electric)	CNP 262	4	95	100%	101
				<b>Total</b>	<b>114</b>
<b>Material Storage and Site Facilities</b>					
<b>Activity 1 Material Storage and Site Facilities</b>					
Dump truck	CNP 067	2	117	20%	113
Crane, mobile/ barge mounted (diesel)	CNP 048	1	112	20%	105
Generator, silenced, 75 dB(A) at 7 m	CNP 102	1	100	20%	93
				<b>Total</b>	<b>114</b>

\*TNS EIA refers to Tsim Sha Tsui Northern Subway EIA

PME	TM or other reference	No. of PME	SWL, dB(A)/ unit	Screening Effect, dB(A)	Noise Mitigation Measures	% on time	Total SWL, dB(A)
<b>Activity 1 Slope Stabilization</b>							
Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	1	102			100%	102
Breaker, hand-held, mass > 10kg and < 20kg	CNP 024	2	108			30%	106
Breaker, excavator mounted (hydraulic)	CNP 028	1	122			80%	121
Crane, mobile/ barge mounted (diesel)	CNP 048	1	112			70%	110
Drill rig, rotary type (diesel)	CNP 072	1	110			50%	107
Generator, super silenced, 70 dB(A) at 7 m	CNP 103	1	95			50%	92
Grout mixer	CNP 105	1	90			20%	83
Grout pump	CNP 106	1	105			20%	98
Lorry with crane/grab	CNP 145	2	105			50%	105
Poker, vibratory, hand-held	CNP 170	2	113			50%	113
Water pump, submersible (electric)	CNP 283	1	85			100%	85
						<b>Total</b>	<b>122</b>
<b>Activity 2 RCP &amp; Machine Room Construction</b>							
Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	1	102			100%	102
Bar bender and cutter (electric)	CNP 021	1	90			25%	84
Breaker, hand-held, mass > 10kg and < 20kg	CNP 024	2	108			40%	107
Concrete lorry mixer	CNP 044	1	109			20%	102
Crane, mobile/ barge mounted (diesel)	CNP 048	1	112			60%	110
Generator, super silenced, 70 dB(A) at 7 m	CNP 103	1	95			100%	95
Lorry with crane/grab	CNP 145	1	105			50%	102
Poker, vibratory, hand-held	CNP 170	3	113			50%	115
Saw, circular, wood	CNP 201	1	108			40%	104
						<b>Total</b>	<b>117</b>
<b>Activity 3 Demolition of RCP and Storm Drain &amp; Foul Sewer Diversion</b>							
Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	1	102			100%	102
Breaker, hand-held, mass > 10kg and < 20kg	CNP 024	3	108			30%	108
Breaker, excavator mounted (hydraulic)	CNP 028	2	122			80%	124
Concrete lorry mixer	CNP 044	1	109			20%	102
Generator, super silenced, 70 dB(A) at 7 m	CNP 103	1	95			100%	95
Lorry with crane/grab	CNP 145	2	105			50%	105
Poker, vibratory, hand-held	CNP 170	2	113			50%	113
Water pump, submersible (electric)	CNP 283	1	85			100%	85
						<b>Total</b>	<b>125</b>
<b>Activity 4 Demolition of existing Retaining Wall &amp; Caisson Wall</b>							
Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	1	102			100%	102
Breaker, hand-held, mass > 10kg and < 20kg	CNP 024	3	108			30%	108
Breaker, excavator mounted (hydraulic)	CNP 028	2	122			70%	123
						<b>Total</b>	<b>124</b>
<b>Activity 5 Pipe Pile Wall</b>							
Breaker, hand-held, mass > 10kg and < 20kg	CNP 024	2	108			30%	106
Breaker, excavator mounted (hydraulic)	CNP 028	1	122			50%	119
Drill rig, rotary type (diesel)	CNP 072	1	110			60%	108
Generator, super silenced, 70 dB(A) at 7 m	CNP 103	1	95			100%	95
Lorry with crane/grab	CNP 145	1	105			50%	102
Poker, vibratory, hand-held	CNP 170	1	113			30%	108
Ventilation fan	CNP 241	2	108			100%	111
Water pump, submersible (electric)	CNP 283	1	85			100%	85
						<b>Total</b>	<b>120</b>
<b>Activity 6 Shaft Excavation &amp; Installation of Shoring</b>							
Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	1	102			100%	102
Breaker, hand-held, mass > 10kg and < 20kg	CNP 024	2	108			30%	106
Breaker, excavator mounted (hydraulic)	CNP 028	1	122			80%	121
Concrete lorry mixer	CNP 044	1	109			20%	102
Concrete mixer (petrol)	CNP 046	1	96			50%	93
Concrete pump, stationary/ lorry mounted	CNP 047	1	109			20%	102
Crane, mobile/ barge mounted (diesel)	CNP 048	1	112			60%	110
Dump truck	CNP 067	2	117			50%	117
Drill rig, rotary type (diesel)	CNP 072	1	110			50%	107
Excavator/ loader, wheeled/ tracked	CNP 081	2	112			80%	114
Generator, super silenced, 70 dB(A) at 7 m	CNP 103	1	95			100%	95
Ventilation fan	CNP 241	2	108			100%	111
Water pump, submersible (electric)	CNP 283	2	85			50%	85
						<b>Total</b>	<b>124</b>

PME	TM or other reference	No. of PME	SWL, dB(A)/ unit	Screening Effect, dB(A)	Noise Mitigation Measures	% on time	Total SWL, dB(A)
<b>Activity 7 Shaft Drill and Blast</b>							
<b>At surface</b>							
Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	1	102			100%	102
Crane, mobile/ barge mounted (diesel)	CNP 048	1	112			100%	112
Grout mixer	CNP 105	1	90			100%	90
Grout pump	CNP 106	1	105			100%	105
Lorry with crane/grab	CNP 145	2	105			100%	108
Generator, super silenced, 70 dB(A) at 7 m	CNP 103	2	95			100%	98
Ventilation fan	CNP 241	1	108			100%	108
<b>In shaft under deck</b>							
Breaker, hand-held, mass > 10kg and < 20kg	CNP 024	2	108	-20	Underground plant	100%	91
Breaker, excavator mounted (pneumatic)	CNP 027	1	122	-20	Underground plant	100%	102
Burster	CNP 051	1	90	-20	Underground plant	100%	70
Grout mixer	CNP 105	1	90	-20	Underground plant	100%	70
Grout pump	CNP 106	1	105	-20	Underground plant	100%	85
Rock Drill	TNS EIA*	2	108	-20	Underground plant	100%	91
Water pump, submersible (electric)	CNP 283	2	85	-20	Underground plant	100%	68
						<b>Total</b>	<b>116</b>
<b>Activity 8 Vent Shaft Construction</b>							
<b>At surface</b>							
Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	1	102			100%	102
Crane, mobile/ barge mounted (diesel)	CNP 048	1	112			20%	105
Water pump, submersible (electric)	CNP 283	1	85			80%	84
Concrete lorry mixer	CNP 044	1	109			20%	102
Hoist, passenger/ material (electric)	CNP 122	1	95			50%	92
Generator, super silenced, 70 dB(A) at 7 m	CNP 103	1	95			20%	88
Ventilation fan	CNP 241	2	108			60%	109
<b>In shaft under deck</b>							
Chipper, hand-held (pneumatic)	CNP 043	2	112	-20	Underground plant	20%	88
Poker, vibratory, hand-held	CNP 170	2	113	-20	Underground plant	20%	89
						<b>Total</b>	<b>112</b>
<b>Activity 9 Adit to Tunnels and Tunnel from HKB to ADM - Drill &amp; Blast</b>							
Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	1	102	-20	Underground plant	100%	82
Concrete lorry mixer	CNP 044	1	109	-20	Underground plant	50%	86
Concrete mixer (petrol)	CNP 046	1	96	-20	Underground plant	50%	73
Concrete pump, stationary/ lorry mounted	CNP 047	1	109	-20	Underground plant	20%	82
Crane, mobile/ barge mounted (diesel)	CNP 048	1	112	-20	Underground plant	60%	90
Dump truck	CNP 067	2	117	-20	Underground plant	50%	97
Generator, super silenced, 70 dB(A) at 7 m	CNP 103	1	95	-20	Underground plant	100%	75
Ventilation fan	CNP 241	1	108	-20	Underground plant	100%	88
Water pump, submersible (electric)	CNP 283	1	85	-20	Underground plant	100%	65
						<b>Total</b>	<b>99</b>
<b>Activity 10 Adits Lining</b>							
<b>At surface</b>							
Crane, mobile/ barge mounted (diesel)	CNP 048	1	112			60%	110
Generator, super silenced, 70 dB(A) at 7 m	CNP 103	1	95			100%	95
Lorry with crane/grab	CNP 145	2	105			40%	104
Ventilation fan	CNP 241	1	108			100%	108
Water pump, submersible (electric)	CNP 283	1	85			100%	85
Grout mixer	CNP 105	1	90			20%	83
Grout pump	CNP 106	1	105			20%	98
Hoist, passenger/ material (electric)	CNP 122	1	95			60%	93
<b>In cavern</b>							
Chipper, hand-held (pneumatic)	CNP 043	2	112	-20	Underground plant	20%	88
Poker, vibratory, hand-held	CNP 170	3	113	-20	Underground plant	20%	91
						<b>Total</b>	<b>113</b>

\*TNS EIA refers to Tsim Sha Tsui Northern Subway EIA

PME	TM or other reference	No. of PME	SWL, dB(A)/ unit	Screening Effect, dB(A)	Noise Mitigation Measures	% on time	Total SWL, dB(A)
<b>Activity 1 Mobilisation work, Site Clearance, Formation, Site Offices &amp; Works Area</b>							
<b>Mobilisation work, Site Clearance</b>							
Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	3	102			70%	105
Breaker, hand-held, mass > 10kg and < 20kg	CNP 024	3	108			70%	111
Crane, mobile/ barge mounted (diesel)	CNP 048	2	112			100%	115
Dump truck	CNP 067	1	117			60%	115
Excavator/ loader, wheeled/ tracked	CNP 081	5	112			80%	118
Generator, super silenced, 70 dB(A) at 7 m	CNP 103	1	95			60%	93
Lorry with crane/ grab	CNP 145	4	105			70%	109
Water pump, submersible (electric)	CNP 283	4	85			100%	91
						<b>Total</b>	<b>122</b>
<b>Formation, Site Offices &amp; Works Area</b>							
Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	3	102			70%	105
Bulldozer	CNP 030	1	115			70%	113
Concrete lorry mixer	CNP 044	2	109			70%	110
Crane, mobile/ barge mounted (diesel)	CNP 048	2	112			100%	115
Compactor, vibratory	CNP 050	1	105			50%	102
Dump truck	CNP 067	2	117			60%	118
Drill rig, rotary type (diesel)	CNP 072	5	110			70%	115
Excavator/ loader, wheeled/ tracked	CNP 081	5	112			80%	118
Generator, super silenced, 70 dB(A) at 7 m	CNP 103	1	95			60%	93
Lorry with crane/ grab	CNP 145	4	105			70%	109
Poker, vibratory, hand-held	CNP 170	5	113			50%	117
Water pump, submersible (electric)	CNP 283	4	85			100%	91
						<b>Total</b>	<b>125</b>
						<b>Maximum</b>	<b>125</b>
<b>Activity 2 Slope Stabilization</b>							
Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	1	102			100%	102
Breaker, hand-held, mass > 10kg and < 20kg	CNP 024	2	108			30%	106
Breaker, excavator mounted (hydraulic)	CNP 028	1	122			80%	121
Crane, mobile/ barge mounted (diesel)	CNP 048	1	112			70%	110
Drill rig, rotary type (diesel)	CNP 072	1	110			50%	107
Generator, super silenced, 70 dB(A) at 7 m	CNP 103	1	95			50%	92
Grout mixer	CNP 105	1	90			20%	83
Grout pump	CNP 106	1	105			20%	98
Lorry with crane/ grab	CNP 145	2	105			50%	105
Poker, vibratory, hand-held	CNP 170	2	113			50%	113
Water pump, submersible (electric)	CNP 283	1	85			100%	85
						<b>Total</b>	<b>122</b>
<b>Activity 3 Portal - Pipe Piles, Excavation &amp; Shoring</b>							
<b>(Group 1) - Pipe Piles</b>							
Crane, mobile/ barge mounted (diesel)	CNP 048	6	112			80%	119
Generator, super silenced, 70 dB(A) at 7 m	CNP 103	1	95			25%	89
Piling, large diameter bored, grab and chisel	CNP 164	4	115			70%	119
Piling, large diameter bored, oscillator	CNP 165	4	115			100%	121
Piling, large diameter bored, reverse circulation drill	CNP 166	4	100			70%	104
Water pump, submersible (electric)	CNP 283	4	85			70%	89
						<b>Total</b>	<b>125</b>
<b>(Group 2) - Excavation</b>							
Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	2	102	-20	Underground Plant	80%	84
Breaker, hand-held, mass > 10kg and < 20kg	CNP 024	3	108	-20	Underground Plant	70%	91
Crane, mobile/ barge mounted (diesel)	CNP 048	6	112	-20	Underground Plant	60%	98
Dump truck	CNP 067	2	117	-20	Underground Plant	40%	96
Drill rig, rotary type (diesel)	CNP 072	4	110	-20	Underground Plant	80%	95
Excavator/ loader, wheeled/ tracked	CNP 081	4	112	-20	Underground Plant	80%	97
Generator, super silenced, 70 dB(A) at 7 m	CNP 103	1	95	-20	Underground Plant	80%	74
Lorry with crane/ grab	CNP 145	4	105	-20	Underground Plant	100%	91
						<b>Total</b>	<b>103</b>
<b>(Group 3) - Shoring</b>							
Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	2	102	-20	Underground Plant	80%	84
Breaker, hand-held, mass > 10kg and < 20kg	CNP 024	3	108	-20	Underground Plant	30%	88
Concrete lorry mixer	CNP 044	3	109	-20	Underground Plant	20%	87
Concrete pump, stationary/ lorry mounted	CNP 047	1	109	-20	Underground Plant	70%	87
Grout mixer	CNP 105	2	90	-20	Underground Plant	60%	71
Grout pump	CNP 106	2	105	-20	Underground Plant	20%	81
						<b>Total</b>	<b>93</b>
						<b>Maximum</b>	<b>125</b>

PME	TM or other reference	No. of PME	SWL, dB(A)/ unit	Screening Effect, dB(A)	Noise Mitigation Measures	% on time	Total SWL, dB(A)
<b>Activity 4 Excavation - Drill &amp; Blast Tunnel</b>							
<b>At ground level in enclosure</b>							
Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	2	102	-15	Noise Enclosure	20%	83
Lorry with crane/ grab	CNP 145	6	105	-15	Noise Enclosure	50%	95
Ventilation fan	CNP 241	3	108	-15	Noise Enclosure	100%	98
Crusher	Anderson Road EIA	1	118	-15	Noise Enclosure	100%	103
<b>In cavern</b>							
Lorry with crane/ grab	CNP 145	6	105	-20	Underground Plant	50%	90
Excavator/ loader, wheeled/ tracked	CNP 081	1	112	-20	Underground Plant	50%	89
Grout mixer	CNP 105	1	90	-20	Underground Plant	50%	67
Grout pump	CNP 106	1	105	-20	Underground Plant	50%	82
Rock drill, crawler mounted (hydraulic)	CNP 182	4	123	-20	Underground Plant	25%	103
Water pump, submersible (electric)	CNP 283	3	85	-20	Underground Plant	100%	70
Ventilation fan	CNP 241	3	108	-20	Underground Plant	100%	93
						<b>Total</b>	<b>107</b>
<b>Activity 5 Tunnel Waterproofing &amp; Lining</b>							
<b>At ground level in enclosure</b>							
Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	2	102	-15	Noise Enclosure	60%	88
Concrete lorry mixer	CNP 044	2	109	-15	Noise Enclosure	20%	90
Concrete pump, stationary/ lorry mounted	CNP 047	1	109	-15	Noise Enclosure	20%	87
Lorry with crane/ grab	CNP 145	3	105	-15	Noise Enclosure	40%	91
Ventilation fan	CNP 241	3	108	-15	Noise Enclosure	100%	98
<b>In cavern</b>							
Chipper, hand-held (pneumatic)	CNP 043	2	112	-20	Underground Plant	30%	90
Lorry with crane/ grab	CNP 145	3	105	-20	Underground Plant	40%	86
Poker, vibratory, hand-held	CNP 170	2	113	-20	Underground Plant	20%	89
Ventilation fan	CNP 241	3	108	-20	Underground Plant	100%	93
Water pump, submersible (electric)	CNP 283	3	85	-20	Underground Plant	100%	70
						<b>Total</b>	<b>101</b>
<b>Activity 6 Construction of Nam Fung Vent Building</b>							
Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	1	102			50%	99
Breaker, hand-held, mass > 10kg and < 20kg	CNP 024	2	108			30%	106
Breaker, excavator mounted (hydraulic)	CNP 028	2	122			40%	121
Concrete lorry mixer	CNP 044	1	109			60%	107
Concrete mixer (petrol)	CNP 046	1	96			60%	94
Concrete pump, stationary/ lorry mounted	CNP 047	1	109			60%	107
Crane, mobile/ barge mounted (diesel)	CNP 048	1	112			60%	110
Dump truck	CNP 067	2	117			60%	118
Drill rig, rotary type (diesel)	CNP 072	1	110			70%	108
Excavator/ loader, wheeled/ tracked	CNP 081	1	112			70%	110
Generator, super silenced, 70 dB(A) at 7 m	CNP 103	1	95			100%	95
Ventilation fan	CNP 241	1	108			100%	108
Water pump, submersible (electric)	CNP 283	1	85			100%	85
						<b>Total</b>	<b>124</b>

PME	TM or other reference	No. of PME	SWL, dB(A)/unit	% on time	Total SWL, dB(A)
<b>Activity 1 Mobilisation, site set-up, Utilities &amp; Ground Investigation</b>					
Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	1	102	100%	102
Breaker, hand-held, mass >= 20kg and <= 35kg	CNP 025	2	111	30%	109
Breaker, excavator mounted (hydraulic)	CNP 028	1	122	30%	117
Concrete lorry mixer	CNP 044	2	109	20%	105
Crane, mobile/ barge mounted (diesel)	CNP 048	1	112	40%	108
Drill rig, rotary type (diesel)	CNP 072	1	110	60%	108
Welder/ generator (silenced)	CNP 102	1	100	100%	100
Lorry with crane/grab	CNP 145	2	105	60%	106
Poker, vibratory, hand-held	CNP 170	2	113	20%	109
Water pump (petrol)	CNP 282	2	103	100%	106
				<b>Total</b>	<b>119</b>
<b>Activity 2 Bored piles &amp; pilecaps</b>					
Bar bender and cutter (electric)	CNP 021	2	90	100%	93
Breaker, hand-held, mass > 10kg and < 20kg	CNP 024	2	108	30%	106
Concrete lorry mixer	CNP 044	2	109	20%	105
Concrete pump, stationary/ lorry mounted	CNP 047	1	109	20%	102
Crane, mobile/ barge mounted (diesel)	CNP 048	4	112	70%	116
Excavator/ loader, wheeled/ tracked	CNP 081	1	112	35%	107
Welder/ generator (silenced)	CNP 102	1	100	70%	98
Lorry with crane/grab	CNP 145	2	105	70%	106
Piling, large diameter bored, oscillator	CNP 165	2	115	70%	116
Power rammer (petrol)	CNP 169	1	108	20%	101
Saw, circular, wood	CNP 201	2	108	100%	111
Water pump (petrol)	CNP 282	2	103	100%	106
				<b>Total</b>	<b>121</b>
<b>Activity 3 Superstructure</b>					
Air compressor, air flow > 30m3/min	CNP 003	1	104	100%	104
Bar bender and cutter (electric)	CNP 021	2	90	100%	93
Breaker, hand-held, mass > 10kg and < 20kg	CNP 024	2	108	30%	106
Chipper, hand-held (pneumatic)	CNP 043	2	112	20%	108
Concrete lorry mixer	CNP 044	2	109	20%	105
Concrete pump, stationary/ lorry mounted	CNP 047	1	109	20%	102
Crane, mobile/ barge mounted (diesel)	CNP 048	1	112	40%	108
Crane, tower (electric)	CNP 049	1	95	70%	93
Lorry with crane/grab	CNP 145	2	105	50%	105
Poker, vibratory, hand-held	CNP 170	3	113	20%	111
Saw, circular, wood	CNP 201	2	108	100%	111
				<b>Total</b>	<b>117</b>
<b>Activity 4 Roof</b>					
Air compressor, air flow > 30m3/min	CNP 003	1	104	100%	104
Chipper, hand-held (pneumatic)	CNP 043	1	112	30%	107
Crane, mobile/ barge mounted (diesel)	CNP 048	1	112	40%	108
Crane, tower (electric)	CNP 049	1	95	70%	93
Drill, percussive, hand-held (electric)	CNP 064	2	103	60%	104
Drill/grinder, hand-held (electric)	CNP 065	2	98	60%	99
Lorry with crane/grab	CNP 145	2	105	50%	105
				<b>Total</b>	<b>113</b>
<b>Activity 5 ABWF</b>					
Air compressor, air flow > 30m3/min	CNP 003	1	104	20%	97
Chipper, hand-held (pneumatic)	CNP 043	1	112	20%	105
Crane, mobile/ barge mounted (diesel)	CNP 048	1	112	20%	105
Drill, percussive, hand-held (electric)	CNP 064	2	103	20%	99
Drill/grinder, hand-held (electric)	CNP 065	2	98	20%	94
Lorry with crane/grab	CNP 145	1	110	35%	105
				<b>Total</b>	<b>111</b>
<b>Activity 6 New Bus Terminus &amp; Roadworks at WCH Rd</b>					
Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	1	102	100%	102
Crane, mobile/ barge mounted (diesel)	CNP 048	1	112	70%	110
Breaker, hand-held, mass >= 20kg and <= 35kg	CNP 025	2	111	30%	109
Breaker, excavator mounted (hydraulic)	CNP 028	1	122	80%	121
Welder/ generator (silenced)	CNP 102	1	100	50%	97
Lorry with crane/grab	CNP 145	2	105	50%	105
Concrete lorry mixer	CNP 044	1	109	50%	106
Poker, vibratory, hand-held	CNP 170	2	113	50%	113
Road planer or miller	CNP 184	1	111	80%	110
Road roller	CNP 185	1	108	80%	107
				<b>Total</b>	<b>123</b>



PME	TM or other reference	No. of PME	SWL, dB(A)/unit	% on time	Total SWL, dB(A)
<b>Activity 7 Footbridge</b>					
<b>(Group 1)</b>					
Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	1	102	100%	102
Breaker, excavator mounted (pneumatic)	CNP 027	1	122	30%	117
Crane, mobile/ barge mounted (diesel)	CNP 048	1	112	100%	112
Lorry with crane/grab	CNP 145	1	105	70%	103
Bar bender and cutter (electric)	CNP 021	1	90	80%	89
Generator, super silenced, 70 dB(A) at 7 m	CNP 103	1	95	100%	95
				<b>Total</b>	<b>118</b>
<b>(Group 2)</b>					
Breaker, excavator mounted (pneumatic)	CNP 027	1	122	30%	117
Breaker, hand-held, mass > 10kg and < 20kg	CNP 024	1	108	30%	103
Concrete lorry mixer	CNP 044	1	109	50%	106
Poker, vibratory, hand-held	CNP 170	2	113	50%	113
Grout pump	CNP 106	1	105	20%	98
Saw, circular, wood	CNP 201	1	108	80%	107
Generator, super silenced, 70 dB(A) at 7 m	CNP 103	1	95	100%	95
				<b>Total</b>	<b>119</b>
				<b>Maximum</b>	<b>119</b>

PME	TM or other reference	No. of PME	SWL, dB(A)/unit	% on time	Total SWL, dB(A)
<b>Construction of Each Pier with Associated Foundation and Erection of Segment</b>					
<b>Activity 1 Install Monitoring, Site Clearance and Hoarding and Utility diversion (Preparatory Works)</b>					
<b>Group 1</b>					
Breaker, hand-held, mass >= 20kg and <= 35kg	CNP 025	2	111	30%	109
Dump truck with grab	CNP 069	1	105	70%	103
Breaker, excavator mounted (hydraulic)	CNP 028	1	122	30%	117
Crane, mobile/ barge mounted (diesel)	CNP 048	1	112	30%	107
				<b>Total</b>	<b>118</b>
<b>Group 2</b>					
Welder/Generator	CNP 107	1	99	50%	96
Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	1	102	60%	100
Water pump (electric)	CNP 281	1	88	40%	84
Crane, mobile/ barge mounted (diesel)	CNP 048	1	112	30%	107
Excavator/ loader, wheeled/ tracked	CNP 081	1	112	50%	109
				<b>Total</b>	<b>111</b>
				<b>Maximum</b>	<b>118</b>
<b>Activity 2 Install Bored Pile</b>					
<b>Group 1</b>					
Drill rig, rotary type (diesel)	CNP 072	1	110	20%	103
Water pump (electric)	CNP 281	1	88	100%	88
Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	1	102	80%	101
Crane, mobile/ barge mounted (diesel)	CNP 048	1	112	100%	112
Welder/Generator	CNP 107	1	99	100%	99
				<b>Total</b>	<b>113</b>
<b>Group 2</b>					
Water pump (electric)	CNP 281	1	88	100%	88
Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	1	102	80%	101
Crane, mobile/ barge mounted (diesel)	CNP 048	1	112	100%	112
Piling, large diameter bored, grab and chisel	CNP 164	1	115	70%	113
Welder/Generator	CNP 107	1	99	100%	99
				<b>Total</b>	<b>116</b>
<b>Group 3</b>					
Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	1	102	80%	101
Concrete lorry mixer	CNP 044	1	109	20%	102
Concrete pump, stationary/ lorry mounted	CNP 047	1	109	20%	102
Welder/Generator	CNP 107	1	99	100%	99
				<b>Total</b>	<b>107</b>
				<b>Maximum</b>	<b>116</b>
<b>Activity 3a Construction of Pilecap</b>					
<b>Group 1</b>					
Water pump (electric)	CNP 281	1	88	80%	87
Welder/Generator	CNP 107	2	99	80%	101
Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	1	102	60%	100
Concrete lorry mixer	CNP 044	2	109	20%	105
Concrete pump, stationary/ lorry mounted	CNP 047	2	109	20%	105
Crane, mobile/ barge mounted (diesel)	CNP 048	1	112	80%	111
				<b>Total</b>	<b>113</b>
<b>Group 2</b>					
Vibrator for sheetpile		1	112	30%	107
Water pump (electric)	CNP 281	1	88	80%	87
Welder/Generator	CNP 107	2	99	80%	101
Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	1	102	60%	100
Crane, mobile/ barge mounted (diesel)	CNP 048	1	112	80%	111
				<b>Total</b>	<b>113</b>
<b>Group 3</b>					
Excavator/ loader, wheeled/ tracked	CNP 081	1	112	50%	109
Dump truck with grab	CNP 069	2	105	50%	105
Breaker, hand-held, mass >= 20kg and <= 35kg	CNP 025	4	111	40%	113
				<b>Total</b>	<b>115</b>
				<b>Maximum</b>	<b>115</b>
<b>Activity 3b Backfill to Road Level and Reinstatement</b>					
Excavator/ loader, wheeled/ tracked	CNP 081	1	112	70%	110
Roller, vibratory	CNP 186	1	108	20%	101
Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	1	102	50%	99
Dump truck	CNP 067	2	117	50%	117
Asphalt paver	CNP 004	1	109	20%	102
				<b>Total</b>	<b>118</b>
				<b>Overall Maximum</b>	<b>118</b>

PME	TM or other reference	No. of PME	SWL, dB(A)/unit	% on time	Total SWL, dB(A)
<b>Construction of Each Pier with Associated Foundation and Erection of Segment</b>					
<b>Activity 4 Construction of Pier</b>					
<b>Group 1</b>					
Welder/Generator	CNP 107	2	99	80%	101
Concrete lorry mixer	CNP 044	2	109	20%	105
Concrete pump, stationary/ lorry mounted	CNP 047	2	109	20%	105
Crane, mobile/ barge mounted (diesel)	CNP 048	1	112	60%	110
				<b>Total</b>	<b>112</b>
<b>Group 2</b>					
Dump truck with grab	CNP 069	1	105	50%	102
Welder/Generator	CNP 107	2	99	80%	101
Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	1	102	60%	100
Poker, vibratory, hand-held	CNP 170	4	113	20%	112
Crane, mobile/ barge mounted (diesel)	CNP 048	1	112	60%	110
				<b>Total</b>	<b>115</b>
				<b>Maximum</b>	<b>115</b>
<b>Activity 5a Erection of Segments (ground level)</b>					
Crane, mobile/ barge mounted (diesel)	CNP 048	1	112	60%	110
Transporter	CNP 141	2	112	20%	108
Dump truck with grab	CNP 069	1	105	50%	102
				<b>Total</b>	<b>112</b>
<b>Activity 5b Erection of Segments (elevated level)</b>					
Prestress Jack*	CNP 261	4	110	30%	111
Welder/Generator	CNP 107	2	99	80%	101
Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	1	102	60%	100
				<b>Total</b>	<b>112</b>
Note*: The SWL of Prestress Jack is assumed same as Winch (Pneumatic) of similar activity					

PME	TM or other reference	No. of PME	SWL, dB(A)/ unit	% on time	Total SWL, dB(A)
<b>Construction of Each Pier with Associated Foundation and Erection of Segment</b>					
<b>Activity 1 Install Monitoring, Site Clearance and Hoarding and Utility diversion (Preparatory Works)</b>					
<b>Group 1</b>					
Breaker, hand-held, mass >= 20kg and <= 35kg	CNP 025	2	111	30%	109
Dump truck with grab	CNP 069	1	105	70%	103
Breaker, excavator mounted (hydraulic)	CNP 028	1	122	30%	117
Crane, mobile/ barge mounted (diesel)	CNP 048	1	112	30%	107
				<b>Total</b>	<b>118</b>
<b>Group 2</b>					
Welder/Generator	CNP 107	1	99	50%	96
Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	1	102	60%	100
Water pump (electric)	CNP 281	1	88	40%	84
Crane, mobile/ barge mounted (diesel)	CNP 048	1	112	30%	107
Excavator/ loader, wheeled/ tracked	CNP 081	1	112	50%	109
				<b>Total</b>	<b>111</b>
				<b>Maximum</b>	<b>118</b>
<b>Activity 2 Install Bored Pile</b>					
<b>Group 1</b>					
Drill rig, rotary type (diesel)	CNP 072	1	110	20%	103
Water pump (electric)	CNP 281	1	88	100%	88
Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	1	102	80%	101
Crane, mobile/ barge mounted (diesel)	CNP 048	1	112	100%	112
Welder/Generator	CNP 107	1	99	100%	99
				<b>Total</b>	<b>113</b>
<b>Group 2</b>					
Water pump (electric)	CNP 281	1	88	100%	88
Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	1	102	80%	101
Crane, mobile/ barge mounted (diesel)	CNP 048	1	112	100%	112
Piling, large diameter bored, grab and chisel	CNP 164	1	115	70%	113
Welder/Generator	CNP 107	1	99	100%	99
				<b>Total</b>	<b>116</b>
<b>Group 3</b>					
Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	1	102	80%	101
Concrete lorry mixer	CNP 044	1	109	20%	102
Concrete pump, stationary/ lorry mounted	CNP 047	1	109	20%	102
Welder/Generator	CNP 107	1	99	100%	99
				<b>Total</b>	<b>107</b>
				<b>Maximum</b>	<b>116</b>
<b>Activity 3a Construction of Pilecap</b>					
<b>Group 1</b>					
Water pump (electric)	CNP 281	1	88	80%	87
Welder/Generator	CNP 107	2	99	80%	101
Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	1	102	60%	100
Concrete lorry mixer	CNP 044	2	109	20%	105
Concrete pump, stationary/ lorry mounted	CNP 047	2	109	20%	105
Crane, mobile/ barge mounted (diesel)	CNP 048	1	112	80%	111
				<b>Total</b>	<b>113</b>
<b>Group 2</b>					
Vibrator for sheetpile		1	112	30%	107
Water pump (electric)	CNP 281	1	88	80%	87
Welder/Generator	CNP 107	2	99	80%	101
Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	1	102	60%	100
Crane, mobile/ barge mounted (diesel)	CNP 048	1	112	80%	111
				<b>Total</b>	<b>113</b>
<b>Group 3</b>					
Excavator/ loader, wheeled/ tracked	CNP 081	1	112	50%	109
Dump truck with grab	CNP 069	2	105	50%	105
Breaker, hand-held, mass >= 20kg and <= 35kg	CNP 025	4	111	40%	113
				<b>Total</b>	<b>115</b>
				<b>Maximum</b>	<b>115</b>
<b>Activity 3b Backfill to Road Level and Reinstatement</b>					
Excavator/ loader, wheeled/ tracked	CNP 081	1	112	70%	110
Roller, vibratory	CNP 186	1	108	20%	101
Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	1	102	50%	99
Dump truck	CNP 067	2	117	50%	117
Asphalt paver	CNP 004	1	109	20%	102
				<b>Total</b>	<b>118</b>
				<b>Overall Maximum</b>	<b>118</b>

PME	TM or other reference	No. of PME	SWL, dB(A)/ unit	% on time	Total SWL, dB(A)
<b>Construction of Each Pier with Associated Foundation and Erection of Segment</b>					
<b>Activity 4 Construction of Pier</b>					
<b>Group 1</b>					
Welder/Generator	CNP 107	2	99	80%	101
Concrete lorry mixer	CNP 044	2	109	20%	105
Concrete pump, stationary/ lorry mounted	CNP 047	2	109	20%	105
Crane, mobile/ barge mounted (diesel)	CNP 048	1	112	60%	110
				<b>Total</b>	<b>112</b>
<b>Group 2</b>					
Dump truck with grab	CNP 069	1	105	50%	102
Welder/Generator	CNP 107	2	99	80%	101
Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	1	102	60%	100
Poker, vibratory, hand-held	CNP 170	4	113	20%	112
Crane, mobile/ barge mounted (diesel)	CNP 048	1	112	60%	110
				<b>Total</b>	<b>115</b>
				<b>Maximum</b>	<b>115</b>
<b>Activity 5a Erection of Segments (ground level)</b>					
Crane, mobile/ barge mounted (diesel)	CNP 048	1	112	60%	110
Transporter	CNP 141	2	112	20%	108
Dump truck with grab	CNP 069	1	105	50%	102
				<b>Total</b>	<b>112</b>
<b>Activity 5b Erection of Segments (elevated level)</b>					
Prestress Jack*		4	110	30%	111
Welder/Generator	CNP 107	2	99	80%	101
Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	1	102	60%	100
				<b>Total</b>	<b>112</b>
Note*: The SWL of Prestress Jack is assumed same as Winch (Pneumatic) of similar activity					

PME	TM or other reference	No. of PME	SWL, dB(A)/unit	% on time	Total SWL, dB(A)
<b>Construction of Each Pier with Associated Foundation and Erection of Segment</b>					
<b>Activity 1 Install Monitoring, Site Clearance and Hoarding and Utility diversion (Preparatory Works)</b>					
<b>Group 1</b>					
Breaker, hand-held, mass >= 20kg and <= 35kg	CNP 025	2	111	30%	109
Dump truck with grab	CNP 069	1	105	70%	103
Breaker, excavator mounted (hydraulic)	CNP 028	1	122	30%	117
Crane, mobile/ barge mounted (diesel)	CNP 048	1	112	30%	107
				<b>Total</b>	<b>118</b>
<b>Group 2</b>					
Welder/Generator	CNP 107	1	99	50%	96
Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	1	102	60%	100
Water pump (electric)	CNP 281	1	88	40%	84
Crane, mobile/ barge mounted (diesel)	CNP 048	1	112	30%	107
Excavator/ loader, wheeled/ tracked	CNP 081	1	112	50%	109
				<b>Total</b>	<b>111</b>
				<b>Maximum</b>	<b>118</b>
<b>Activity 2 Install Bored Pile</b>					
<b>Group 1</b>					
Drill rig, rotary type (diesel)	CNP 072	1	110	20%	103
Water pump (electric)	CNP 281	1	88	100%	88
Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	1	102	80%	101
Crane, mobile/ barge mounted (diesel)	CNP 048	1	112	100%	112
Welder/Generator	CNP 107	1	99	100%	99
				<b>Total</b>	<b>113</b>
<b>Group 2</b>					
Water pump (electric)	CNP 281	1	88	100%	88
Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	1	102	80%	101
Crane, mobile/ barge mounted (diesel)	CNP 048	1	112	100%	112
Giken Piler and Power pack	TNS EIA	1	94	70%	92
Welder/Generator	CNP 107	1	99	100%	99
				<b>Total</b>	<b>113</b>
<b>Group 3</b>					
Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	1	102	80%	101
Concrete lorry mixer	CNP 044	1	109	20%	102
Concrete pump, stationary/ lorry mounted	CNP 047	1	109	20%	102
Welder/Generator	CNP 107	1	99	100%	99
				<b>Total</b>	<b>107</b>
				<b>Maximum</b>	<b>113</b>
<b>Activity 3a Construction of Pilecap</b>					
<b>Group 1</b>					
Water pump (electric)	CNP 281	1	88	80%	87
Welder/Generator	CNP 107	2	99	80%	101
Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	1	102	60%	100
Concrete lorry mixer	CNP 044	2	109	20%	105
Concrete pump, stationary/ lorry mounted	CNP 047	2	109	20%	105
Crane, mobile/ barge mounted (diesel)	CNP 048	1	112	80%	111
				<b>Total</b>	<b>113</b>
<b>Group 2</b>					
Vibrator for sheetpile		1	112	30%	107
Water pump (electric)	CNP 281	1	88	80%	87
Welder/Generator	CNP 107	2	99	80%	101
Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	1	102	60%	100
Crane, mobile/ barge mounted (diesel)	CNP 048	1	112	80%	111
				<b>Total</b>	<b>113</b>
<b>Group 3</b>					
Excavator/ loader, wheeled/ tracked	CNP 081	1	112	50%	109
Dump truck with grab	CNP 069	2	105	50%	105
Breaker, hand-held, mass >= 20kg and <= 35kg	CNP 025	4	111	40%	113
				<b>Total</b>	<b>115</b>
				<b>Maximum</b>	<b>115</b>
<b>Activity 3b Backfill to Road Level and Reinstatement</b>					
Excavator/ loader, wheeled/ tracked	CNP 081	1	112	70%	110
Roller, vibratory	CNP 186	1	108	20%	101
Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	1	102	50%	99
Dump truck	CNP 067	2	117	50%	117
Asphalt paver	CNP 004	1	109	20%	102
				<b>Total</b>	<b>118</b>
				<b>Overall Maximum</b>	<b>118</b>

PME	TM or other reference	No. of PME	SWL, dB(A)/unit	% on time	Total SWL, dB(A)
<b>Construction of Each Pier with Associated Foundation and Erection of Segment</b>					
<b>Activity 4 Construction of Pier</b>					
<b>Group 1</b>					
Welder/Generator	CNP 107	2	99	80%	101
Concrete lorry mixer	CNP 044	2	109	20%	105
Concrete pump, stationary/ lorry mounted	CNP 047	2	109	20%	105
Crane, mobile/ barge mounted (diesel)	CNP 048	1	112	60%	110
				<b>Total</b>	<b>112</b>
<b>Group 2</b>					
Dump truck with grab	CNP 069	1	105	50%	102
Welder/Generator	CNP 107	2	99	80%	101
Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	1	102	60%	100
Poker, vibratory, hand-held	CNP 170	4	113	20%	112
Crane, mobile/ barge mounted (diesel)	CNP 048	1	112	60%	110
				<b>Total</b>	<b>115</b>
				<b>Maximum</b>	<b>115</b>
<b>Activity 5a Erection of Segments (ground level)</b>					
Crane, mobile/ barge mounted (diesel)	CNP 048	1	112	60%	110
Transporter	CNP 141	2	112	20%	108
Dump truck with grab	CNP 069	1	105	50%	102
				<b>Total</b>	<b>112</b>
<b>Activity 5b Erection of Segments (elevated level)</b>					
Prestress Jack*		4	110	30%	111
Welder/Generator	CNP 107	2	99	80%	101
Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	1	102	60%	100
				<b>Total</b>	<b>112</b>
Note*: The SWL of Prestress Jack is assumed same as Winch (Pneumatic) of similar activity					

PME	TM or other reference	No. of PME	SWL, dB(A)/unit	% on time	Total SWL, dB(A)
<b>Activity 1 Temporary Works (inc. mobilization, utilities, traffic diversions etc.)</b>					
Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	1	102	100%	102
Breaker, hand-held, mass >= 20kg and <= 35kg	CNP 025	2	111	30%	109
Breaker, excavator mounted (hydraulic)	CNP 028	1	122	30%	117
Concrete lorry mixer	CNP 044	2	109	20%	105
Crane, mobile/ barge mounted (diesel)	CNP 048	1	112	40%	108
Excavator/ loader, wheeled/ tracked	CNP 081	1	112	40%	108
Drill rig, rotary type (diesel)	CNP 072	1	110	50%	107
Generator, silenced, 75 dB(A) at 7 m	CNP 102	1	100	60%	98
Lorry with crane/ grab	CNP 145	2	105	60%	106
Piling, large diameter bored, reverse circulation drill	CNP 166	2	100	50%	100
Poker, vibratory, hand-held	CNP 170	1	113	20%	106
Water pump (petrol)	CNP 282	2	103	100%	106
				<b>Total</b>	<b>120</b>
<b>Activity 2 Station Foundations</b>					
Breaker, hand-held, mass > 10kg and < 20kg	CNP 024	1	108	30%	103
Concrete lorry mixer	CNP 044	2	109	20%	105
Concrete pump, stationary/ lorry mounted	CNP 047	1	109	20%	102
Crane, mobile/ barge mounted (diesel)	CNP 048	1	112	70%	110
Excavator/ loader, wheeled/ tracked	CNP 081	1	112	35%	107
Generator, silenced, 75 dB(A) at 7 m	CNP 102	1	100	50%	97
Lorry with crane/ grab	CNP 145	2	105	50%	105
Piling, large diameter bored, oscillator	CNP 165	1	115	60%	113
Power rammer (petrol)	CNP 169	1	108	20%	101
Water pump (petrol)	CNP 282	2	103	70%	104
				<b>Total</b>	<b>117</b>
<b>Activity 3 Station Structure</b>					
Air compressor, air flow > 30m3/min	CNP 003	1	104	70%	102
Breaker, hand-held, mass > 10kg and < 20kg	CNP 024	1	108	30%	103
Chipper, hand-held (pneumatic)	CNP 043	2	112	20%	108
Concrete lorry mixer	CNP 044	2	109	20%	105
Concrete pump, stationary/ lorry mounted	CNP 047	1	109	20%	102
Crane, mobile/ barge mounted (diesel)	CNP 048	1	112	40%	108
Crane, tower (electric)	CNP 049	1	95	70%	93
Lorry with crane/ grab	CNP 145	2	105	50%	105
Poker, vibratory, hand-held	CNP 170	3	113	20%	111
				<b>Total</b>	<b>116</b>
<b>Activity 4 Culvert Excavation</b>					
Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	1	102	40%	98
Breaker, hand-held, mass >= 20kg and <= 35kg	CNP 025	1	111	40%	107
Breaker, excavator mounted (hydraulic)	CNP 028	1	122	40%	118
Excavator/ loader, wheeled/ tracked	CNP 081	1	112	60%	110
Lorry with crane/ grab	CNP 145	2	105	60%	106
Water pump (petrol)	CNP 282	2	103	100%	106
				<b>Total</b>	<b>119</b>
<b>Activity 5 Culvert Structure</b>					
Air compressor, air flow > 30m3/min	CNP 003	1	104	40%	100
Chipper, hand-held (pneumatic)	CNP 043	2	112	20%	108
Concrete lorry mixer	CNP 044	2	109	20%	105
Concrete pump, stationary/ lorry mounted	CNP 047	1	109	20%	102
Crane, mobile/ barge mounted (diesel)	CNP 048	1	112	60%	110
Lorry with crane/ grab	CNP 145	2	105	30%	103
Poker, vibratory, hand-held	CNP 170	2	113	20%	109
				<b>Total</b>	<b>115</b>
<b>Activity 6 Roadworks (inc. backfill &amp; utilities)</b>					
Air compressor, air flow > 30m3/min	CNP 003	1	104	25%	98
Asphalt paver	CNP 004	1	109	20%	102
Breaker, hand-held, mass > 10kg and < 20kg	CNP 024	2	108	30%	106
Breaker, excavator mounted (pneumatic)	CNP 027	1	122	30%	117
Concrete lorry mixer	CNP 044	2	109	20%	105
Crane, mobile/ barge mounted (diesel)	CNP 048	1	112	40%	108
Drill/grinder, hand-held (electric)	CNP 065	1	98	25%	92
Excavator/ loader, wheeled/ tracked	CNP 081	1	112	25%	106
Generator, silenced, 75 dB(A) at 7 m	CNP 102	1	100	25%	94
Lorry with crane/ grab	CNP 145	2	105	40%	104
Power rammer (petrol)	CNP 169	1	108	25%	102
Roller, vibratory	CNP 186	1	108	20%	101
				<b>Total</b>	<b>119</b>
<b>Activity 7 EPIW - Footbridge</b>					
<b>(Group 1)</b>					
Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	1	102	100%	102
Breaker, excavator mounted (pneumatic)	CNP 027	1	122	30%	117
Crane, mobile/ barge mounted (diesel)	CNP 048	1	112	100%	112
Lorry with crane/ grab	CNP 145	1	105	70%	103
Bar bender and cutter (electric)	CNP 021	1	90	80%	89
Generator, super silenced, 70 dB(A) at 7 m	CNP 103	1	95	100%	95
				<b>Total</b>	<b>118</b>
<b>(Group 2)</b>					
Breaker, excavator mounted (pneumatic)	CNP 027	1	122	30%	117
Breaker, hand-held, mass > 10kg and < 20kg	CNP 024	1	108	30%	103
Concrete lorry mixer	CNP 044	1	109	50%	106
Poker, vibratory, hand-held	CNP 170	2	113	50%	113
Grout pump	CNP 106	1	105	50%	102
Saw, circular, wood	CNP 201	1	108	80%	107
Generator, super silenced, 70 dB(A) at 7 m	CNP 103	1	95	100%	95
				<b>Total</b>	<b>119</b>
				<b>Maximum</b>	<b>119</b>



	PME	TM Ref. / BS no.	SWL Unit, d(BA)	Percentage On time	SWL Unit, d(BA)	Month 1	Month 1	Month 2	Month 2	Month 3	Month 3	Month 4	Month 4	Month 5	Month 5	Month 6	Month 6	Month 7	Month 7	Month 8	Month 8	Month 9	Month 9	Month 10	Month 10	Month 11	Month 11	Month 12	Month 12	Month 13	Month 13	Month 14	Month 14	Month 15	Month 15	Month 16	Month 16	Month 17	Month 17	Month 18	Month 18	Month 19	Month 19	Month 20	Month 20	Month 21	Month 21						
						(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)
<b>Civil Works</b>																																																					
<b>Zone A</b>																																																					
General Use	Bar bender and cutter (electric)	CNP 021	90	80%	89																																																
	Air compressor, air flow > 10m³/min and <=	CNP 002	102	100%	102	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1						
	Generator, standard	CNP 101	108	100%	108	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1					
	Crane, tower (electric)	CNP 049	95	50%	92																																																
	Welder	Sheung Shui to LMC EIA	78	100%	78																																																
	Breaker, hand-held, mass > 35kg	CNP 026	114	30%	109	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2				
	Poker, vibratory, hand-held	CNP 170	113	20%	106																																																
	Lorry with crane/grab	CNP 145	105	50%	102	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1				
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	60%	110	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1				
	Roller, vibratory	CNP 186	108	50%	105	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
	Excavation - Soft	Excavator loader, wheeled/ tracked	CNP 081	112	80%	111					4	4	4																																								
	Excavation - Drill & Blast	Bulldozer	CNP 030	115	60%	113					2	2	2																																								
		Excavator	CNP 081	112	80%	111									2																																						
Front Loader		CNP 081	112	80%	111									2																																							
Breaker, excavator mounted (hydraulic)		CNP 028	122	60%	120									2																																							
Excavation - Mechanical Rock Breaking	Drill rig, rotary type (diesel)	CNP 072	110	40%	106									1																																							
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	60%	110									1																																							
	Rock Drill	TNS EIA*	108	80%	107									2																																							
Mechanical Breaking Rock for Footings	Breaker, excavator mounted (hydraulic)	CNP 028	122	60%	120									2																																							
	Excavator loader, wheeled/ tracked	CNP 081	112	80%	111									2																																							
	Rock Drill	TNS EIA*	108	60%	106									2	2																																						
Bored Piles	Drill rig, rotary type (diesel)	CNP 072	110	40%	106													2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2				
	Piling, large diameter bored, oscillator	CNP 165	115	50%	112													2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2				
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	50%	109													1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
H-Piles	Drill rig, rotary type (diesel)	CNP 072	110	60%	108													2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2			
	Piling, large diameter bored, oscillator	CNP 165	115	80%	114													2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2			
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	50%	109													1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Spoil Removal	Dump truck	CNP 067	117	100%	117					3	3	3	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4		
Concreting	Concrete lorry mixer	CNP 044	109	40%	105																					1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Miscellaneous Delivery	Dump truck	CNP 067	117	60%	115	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2			
<b>Total SWL</b>						<b>118</b>	<b>118</b>	<b>118</b>	<b>118</b>	<b>125</b>	<b>125</b>	<b>125</b>	<b>127</b>	<b>127</b>	<b>127</b>	<b>127</b>	<b>125</b>	<b>126</b>	<b>126</b>	<b>126</b>	<b>126</b>	<b>126</b>	<b>126</b>	<b>125</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>				
<b>Zone A Perimeter Wall</b>																																																					
Perimeter Pipe Pile Wall	Drill rig, rotary type (diesel)	CNP 072	110	60%	108					4	4	4	4																																								
	Giken Piler and Power pack	TNS EIA*	94	70%	92					4	4	4	4																																								
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	60%	110						2	2	2	2																																							
<b>Total SWL</b>						<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>116</b>	<b>116</b>	<b>116</b>	<b>116</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>			
<b>Zone B</b>																																																					
General Use	Bar bender and cutter (electric)	CNP 021	90	80%	89																																																
	Air compressor, air flow > 10m³/min and <=	CNP 002	102	100%	102	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
	Generator, standard	CNP 101	108	100%	108	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
	Crane, tower (electric)	CNP 049	95	50%	92																																																
	Welder	Sheung Shui to LMC EIA	78	100%	78																																																







	PME	TM Ref. / BS no.	SWL Unit, dBA	Percentage On time	SWL Unit, dBA	Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12	Month 13	Month 14	Month 15	Month 16	Month 17	Month 18	Month 19	Month 20	Month 21	Month 22			
						(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)
Spoil Removal	Excavator/ loader, wheeled/ tracked	CNP	081	112	60%	110																								
	Dump truck	CNP	067	117	100%	117					4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4			
	Concrete lorry mixer	CNP	044	109	40%	105							1	1	1	1	1	1	1	1	1	1	1	1	1	1				
	Miscellaneous Delivery	Dump truck	CNP	067	117	60%	115	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
<b>Total SWL</b>						<b>118</b>	<b>118</b>	<b>118</b>	<b>118</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>126</b>	<b>126</b>	<b>126</b>	<b>128</b>	<b>128</b>	<b>127</b>	<b>127</b>	<b>127</b>	<b>127</b>	<b>127</b>	<b>127</b>			
Rock Crusher	Rock Crusher Plant	Anderson Road EIA	118	100%	118																									
	<b>Total SWL</b>						<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>118</b>	<b>118</b>	<b>118</b>	<b>118</b>	<b>118</b>	<b>118</b>	<b>118</b>	<b>118</b>	<b>118</b>	<b>118</b>	<b>118</b>	<b>118</b>	<b>118</b>	<b>118</b>	<b>118</b>			
<b>Construction of New Temporary PTI</b>																														
General Use	Excavator/ loader, wheeled/ tracked	CNP	081	112	50%	109																								
	Air compressor, air flow > 10m³/min and <=	CNP	002	102	100%	102																								
	Breaker, excavator mounted (hydraulic)	CNP	028	122	50%	119																								
	Concrete lorry mixer	CNP	044	109	40%	105																								
	Poker, vibratory, hand-held	CNP	170	113	40%	109																								
<b>Total SWL</b>						<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>120</b>	<b>120</b>	<b>120</b>	<b>120</b>	<b>120</b>	<b>120</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>			
<b>Structural Works</b>																														
<b>Fan Area</b>																														
General Use	Bar bender and cutter (electric)	CNP	021	90	80%	89																								
	Air compressor, air flow > 10m³/min and <=	CNP	002	102	100%	102																								
	Generator, standard	CNP	101	108	100%	108																								
	Crane, tower (electric)	CNP	049	95	50%	92																								
	Welder	Sheung Shui to LMC EIA	78	100%	78																									
	Breaker, hand-held, mass > 35kg	CNP	026	114	30%	109																								
	Poker, vibratory, hand-held	CNP	170	113	20%	106																								
	Lorry with crane/grab	CNP	145	105	50%	102																								
	Crane, mobile/ barge mounted (diesel)	CNP	048	112	60%	110																								
	Roller, vibratory	CNP	186	108	50%	105																								
	Pilecaps	Crane, mobile/ barge mounted (diesel)	CNP	048	112	70%	110																							
	Footings	Crane, mobile/ barge mounted (diesel)	CNP	048	112	70%	110																							
	Concrete Works	Concrete pump, stationary/ lorry mounted	CNP	047	109	40%	105																							
	Spoil Removal	Crane, mobile/ barge mounted (diesel)	CNP	048	112	60%	110																							
		Dump truck	CNP	067	117	100%	117																							
Concrete lorry mixer		CNP	044	109	40%	105																								
Miscellaneous Delivery		Dump truck	CNP	067	117	60%	115																							
<b>Total SWL</b>						<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>				
<b>Maintenance Rolling Stock Building</b>																														
General Use		Bar bender and cutter (electric)	CNP	021	90	80%	89																							
		Air compressor, air flow > 10m³/min and <=	CNP	002	102	100%	102																							
		Generator, standard	CNP	101	108	100%	108																							
		Crane, tower (electric)	CNP	049	95	50%	92																							
		Welder	Sheung Shui to LMC EIA	78	100%	78																								
		Breaker, hand-held, mass > 35kg	CNP	026	114	30%	109																							
		Poker, vibratory, hand-held	CNP	170	113	20%	106																							
		Lorry with crane/grab	CNP	145	105	50%	102																							
		Crane, mobile/ barge mounted (diesel)	CNP	048	112	60%	110																							
	Roller, vibratory	CNP	186	108	50%	105																								
	Pilecaps	Crane, mobile/ barge mounted (diesel)	CNP	048	112	70%	110																							
	Footings	Crane, mobile/ barge mounted (diesel)	CNP	048	112	70%	110																							
	Concrete Works	Concrete pump, stationary/ lorry mounted	CNP	047	109	40%	105																							
	Spoil Removal	Crane, mobile/ barge mounted (diesel)	CNP	048	112	60%	110																							
		Dump truck	CNP	067	117	100%	117																							
Concrete lorry mixer		CNP	044	109	40%	105																								
Miscellaneous Delivery		Dump truck	CNP	067	117	60%	115																							
<b>Total SWL</b>						<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>				
<b>Stabling Area</b>																														
General Use		Bar bender and cutter (electric)	CNP	021	90	80%	89																							
		Air compressor, air flow > 10m³/min and <=	CNP	002	102	100%	102																							
		Generator, standard	CNP	101	108	100%	108																							
		Crane, tower (electric)	CNP	049	95	50%	92																							
		Welder	Sheung Shui to LMC EIA	78	100%	78																								
		Breaker, hand-held, mass > 35kg	CNP	026	114	30%	109																							
		Poker, vibratory, hand-held	CNP	170	113	20%	106																							
		Lorry with crane/grab	CNP	145	105	50%	102																							
		Crane, mobile/ barge mounted (diesel)	CNP	048	112	60%	110																							
	Roller, vibratory	CNP	186	108	50%	105																								
	Pilecaps	Crane, mobile/ barge mounted (diesel)	CNP	048	112	70%	110																							
	Footings	Crane, mobile/ barge mounted (diesel)	CNP	048	112	70%	110																							
	Concrete Works	Concrete pump, stationary/ lorry mounted	CNP	047	109	40%	105																							
	Spoil Removal	Crane, mobile/ barge mounted (diesel)	CNP	048	112	60%	110																							
		Dump truck	CNP	067	117	100%	117																							
Concrete lorry mixer		CNP	044	109	40%	105																								
Miscellaneous Delivery		Dump truck	CNP	067	117	60%	115																							
<b>Total SWL</b>						<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>				









PME	TM or other reference	No. of PME	SWL, dB(A)/ unit	% on time	Total SWL, dB(A)
<b>Activity 1 Mobilisation work, Site Clearance, Formation &amp; Works Area</b>					
<b>(Group 1)</b>					
Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	3	102	50%	104
Breaker, hand-held, mass > 10kg and < 20kg	CNP 024	3	108	30%	108
Crane, mobile/ barge mounted (diesel)	CNP 048	2	112	40%	111
Excavator/ loader, wheeled/ tracked	CNP 081	3	112	20%	110
Generator, super silenced, 70 dB(A) at 7 m	CNP 103	1	95	100%	95
Lorry with crane/grab	CNP 145	5	105	40%	108
Water pump, submersible (electric)	CNP 283	3	85	100%	90
				<b>Total</b>	<b>116</b>
<b>(Group 2)</b>					
Bulldozer	CNP 030	1	115	50%	112
Crane, mobile/ barge mounted (diesel)	CNP 048	2	112	40%	111
Dump truck	CNP 067	2	117	50%	117
Drill rig, rotary type (diesel)	CNP 072	5	110	20%	110
				<b>Total</b>	<b>119</b>
<b>(Group 3)</b>					
Concrete lorry mixer	CNP 044	2	109	20%	105
Crane, mobile/ barge mounted (diesel)	CNP 048	2	112	40%	111
Compactor, vibratory	CNP 050	1	105	50%	102
Lorry with crane/grab	CNP 145	5	105	40%	108
Poker, vibratory, hand-held	CNP 170	3	113	20%	111
				<b>Total</b>	<b>116</b>
				<b>Maximum</b>	<b>119</b>
<b>Activity 2a Demolition of Footbridge</b>					
<b>(Group 1)</b>					
Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	3	102	100%	107
Breaker, hand-held, mass > 10kg and < 20kg	CNP 024	3	108	40%	109
Breaker, excavator mounted (hydraulic)	CNP 028	2	122	40%	121
Generator, super silenced, 70 dB(A) at 7 m	CNP 103	1	95	100%	95
Lorry with crane/grab	CNP 145	2	105	40%	104
Water pump, submersible (electric)	CNP 283	3	85	100%	90
				<b>Total</b>	<b>122</b>
<b>(Group 2)</b>					
Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	3	102	100%	107
Concrete lorry mixer	CNP 044	1	109	30%	104
Generator, super silenced, 70 dB(A) at 7 m	CNP 103	1	95	100%	95
Poker, vibratory, hand-held	CNP 170	3	113	30%	113
				<b>Total</b>	<b>114</b>
				<b>Maximum</b>	<b>122</b>
<b>Activity 2b Demolition of Harbour Mission School</b>					
<b>(Group 1)</b>					
Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	3	102	100%	107
Breaker, hand-held, mass > 10kg and < 20kg	CNP 024	3	108	40%	109
Breaker, excavator mounted (hydraulic)	CNP 028	2	122	40%	121
Generator, super silenced, 70 dB(A) at 7 m	CNP 103	1	95	100%	95
Lorry with crane/grab	CNP 145	2	105	40%	104
Water pump, submersible (electric)	CNP 283	3	85	100%	90
				<b>Total</b>	<b>122</b>
<b>(Group 2)</b>					
Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	3	102	100%	107
Concrete lorry mixer	CNP 044	1	109	30%	104
Generator, super silenced, 70 dB(A) at 7 m	CNP 103	1	95	100%	95
Poker, vibratory, hand-held	CNP 170	3	113	30%	113
				<b>Total</b>	<b>114</b>
				<b>Maximum</b>	<b>122</b>
<b>Activity 3 Slope Stabilization</b>					
<b>(Group 1)</b>					
Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	2	102	100%	105
Breaker, hand-held, mass > 10kg and < 20kg	CNP 024	2	108	30%	106
Breaker, excavator mounted (hydraulic)	CNP 028	1	122	80%	121
Crane, mobile/ barge mounted (diesel)	CNP 048	1	112	70%	110
Drill rig, rotary type (diesel)	CNP 072	1	110	50%	107
Generator, super silenced, 70 dB(A) at 7 m	CNP 103	1	95	100%	95
Lorry with crane/grab	CNP 145	2	105	50%	105
Water pump, submersible (electric)	CNP 283	1	85	100%	85
				<b>Total</b>	<b>122</b>
<b>(Group 2)</b>					
Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	2	102	100%	105
Crane, mobile/ barge mounted (diesel)	CNP 048	1	112	70%	110
Generator, super silenced, 70 dB(A) at 7 m	CNP 103	1	95	100%	95
Grout mixer	CNP 105	1	90	100%	90
Grout pump	CNP 106	1	105	20%	98
Poker, vibratory, hand-held	CNP 170	2	113	50%	113
				<b>Total</b>	<b>115</b>
				<b>Maximum</b>	<b>122</b>

PME	TM or other reference	No. of PME	SWL, dB(A)/ unit	% on time	Total SWL, dB(A)
<b>Activity 4 Piling/Walling</b>					
Pile Rig	BS 5228 Table D.11/2	1	112	25%	106
Air compressor, air flow > 10m <sup>3</sup> /min and <= 30m <sup>3</sup> /min	CNP 002	1	102	50%	99
Generator, super silenced, 70 dB(A) at 7 m	CNP 103	1	95	50%	92
				<b>Total</b>	<b>107</b>
<b>Activity 5 Excavation of Soil</b>					
<b>(Group 1)</b>					
Breaker, excavator mounted (hydraulic)	CNP 028	1	122	30%	117
Conveyor belt	CNP 041	1	90	50%	87
Dump truck	CNP 067	2	117	100%	120
Drill rig, rotary type (diesel)	CNP 072	2	110	50%	110
Excavator/ loader, wheeled/ tracked	CNP 081	1	112	100%	112
Ventilation fan	CNP 241	1	108	100%	108
Water pump, submersible (electric)	CNP 283	1	85	100%	85
				<b>Total</b>	<b>123</b>
<b>(Group 2)</b>					
Concrete pump, stationary/ lorry mounted	CNP 047	1	109	20%	102
Grout mixer	CNP 105	2	90	20%	86
Grout pump	CNP 106	2	105	20%	101
Ventilation fan	CNP 241	1	108	100%	108
Winch (electric)	CNP 262	1	95	20%	88
				<b>Total</b>	<b>110</b>
				<b>Maximum</b>	<b>123</b>
<b>Activity 6 Construction of Box Tunnel &amp; Backfill</b>					
<b>(Group 1)</b>					
Air compressor, air flow > 10m <sup>3</sup> /min and <= 30m <sup>3</sup> /min	CNP 002	2	102	20%	98
Concrete lorry mixer	CNP 044	2	109	20%	105
Concrete pump, stationary/ lorry mounted	CNP 047	1	109	20%	102
Ventilation fan	CNP 241	2	108	100%	111
Winch (electric)	CNP 262	1	95	100%	95
				<b>Total</b>	<b>113</b>
<b>(Group 2)</b>					
Air compressor, air flow > 10m <sup>3</sup> /min and <= 30m <sup>3</sup> /min	CNP 002	2	102	30%	100
Dump truck	CNP 067	2	117	30%	115
Poker, vibratory, hand-held	CNP 170	6	113	30%	116
Ventilation fan	CNP 241	2	108	100%	111
Water pump, submersible (electric)	CNP 283	2	85	100%	88
				<b>Total</b>	<b>119</b>
				<b>Maximum</b>	<b>119</b>
<b>Activity 7 Sitting Out Area at Sham Wan Tower - Reinstatement Works</b>					
Air compressor, air flow > 10m <sup>3</sup> /min and <= 30m <sup>3</sup> /min	CNP 002	1	102	100%	102
Asphalt paver	CNP 004	1	109	20%	102
Concrete lorry mixer	CNP 044	1	109	20%	102
Dump truck	CNP 067	1	117	20%	110
Power rammer (petrol)	CNP 169	1	108	20%	101
Poker, vibratory, hand-held	CNP 170	2	113	20%	109
Road roller	CNP 185	1	108	20%	101
				<b>Total</b>	<b>114</b>
<b>Activity 8 Material Storage and Site Facilities</b>					
Dump truck	CNP 067	2	117	20%	113
Crane, mobile/ barge mounted (diesel)	CNP 048	1	112	20%	105
Generator, silenced, 75 dB(A) at 7 m	CNP 102	1	100	20%	93
				<b>Total</b>	<b>114</b>

PME	TM or other reference	No. of PME	SWL, dB(A)/ unit	% on time	Total SWL, dB(A)
<b>LET Entrance A</b>					
<b>Activity 1 Entrance A Rock Excavation</b>					
<b>(Group 1 - Rock Breaking)</b>					
Breaker, hand-held, mass > 10kg and < 20kg	CNP 024	2	108	50%	108
Breaker, excavator mounted (hydraulic)	CNP 028	3	122	70%	125
Generator, super silenced, 70 dB(A) at 7 m	CNP 103	1	95	100%	95
Lorry with crane/grab	CNP 145	2	105	35%	103
				<b>Total</b>	<b>125</b>
<b>(Group 2 - Piling)</b>					
Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	1	102	100%	102
Crane, mobile/ barge mounted (diesel)	CNP 048	2	112	70%	113
Drill rig, rotary type (diesel)	CNP 072	3	110	80%	114
Excavator/ loader, wheeled/ tracked	CNP 081	2	112	35%	111
Generator, super silenced, 70 dB(A) at 7 m	CNP 103	1	95	100%	95
Water pump, submersible (electric)	CNP 283	1	85	100%	85
				<b>Total</b>	<b>118</b>
<b>(Group 3 - Concreting)</b>					
Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	1	102	100%	102
Concrete lorry mixer	CNP 044	2	109	50%	109
Grout mixer	CNP 105	1	90	50%	87
Grout pump	CNP 106	1	105	50%	102
Poker, vibratory, hand-held	CNP 170	2	113	50%	113
Water pump, submersible (electric)	CNP 283	1	85	100%	85
				<b>Total</b>	<b>115</b>
				<b>Maximim</b>	<b>125</b>
<b>Activity 2 Entrance A Concrete Works</b>					
Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	2	102	80%	104
Bar bender and cutter (electric)	CNP 021	1	90	80%	89
Concrete lorry mixer	CNP 044	2	109	50%	109
Concrete pump, stationary/ lorry mounted	CNP 047	1	109	50%	106
Crane, mobile/ barge mounted (diesel)	CNP 048	1	112	60%	110
Poker, vibratory, hand-held	CNP 170	4	113	50%	116
Saw, circular, wood	CNP 201	1	108	80%	107
Winch (electric)	CNP 262	1	95	80%	94
Water pump, submersible (electric)	CNP 283	2	85	100%	88
				<b>Total</b>	<b>118</b>

PME	TM or other reference	No. of PME	SWL, dB(A)/ unit	Screening Effect, dB(A)	Noise Mitigation Measures	% on time	Total SWL, dB(A)
<b>LET Entrance B</b>							
<b>Activity 1 Entrance B Piling/Walling</b>							
Pile Rig	BS 5228 Table D.11/2	2	112			80%	114
Air compressor, air flow > 10m <sup>3</sup> /min and <= 30m <sup>3</sup> /min	CNP 002	2	102			100%	105
Generator, super silenced, 70 dB(A) at 7 m	CNP 103	1	95			100%	95
						<b>Total</b>	<b>115</b>
<b>Activity 2 Entrance B Excavation</b>							
<b>(Group 1)</b>							
Air compressor, air flow > 10m <sup>3</sup> /min and <= 30m <sup>3</sup> /min	CNP 002	1	102	-20	Underground Plant	100%	82
Breaker, hand-held, mass > 10kg and < 20kg	CNP 024	4	108	-20	Underground Plant	50%	91
Breaker, excavator mounted (hydraulic)	CNP 028	1	122	-20	Underground Plant	80%	101
Excavator/ loader, wheeled/ tracked	CNP 081	1	112	-20	Underground Plant	50%	89
Hoist, passenger/ material (electric)	CNP 122	1	95	-20	Underground Plant	100%	75
Lorry with crane/grab	CNP 145	2	105	-20	Underground Plant	50%	85
Rock drill, crawler mounted (hydraulic)	CNP 182	2	123	-20	Underground Plant	80%	105
Water pump, submersible (electric)	CNP 283	1	85	-20	Underground Plant	100%	65
						<b>Total</b>	<b>107</b>
<b>(Group 2)</b>							
Air compressor, air flow > 10m <sup>3</sup> /min and <= 30m <sup>3</sup> /min	CNP 002	1	102	-20	Underground Plant	100%	82
Concrete lorry mixer	CNP 044	1	109	-20	Underground Plant	20%	82
Grout mixer	CNP 105	1	90	-20	Underground Plant	30%	65
Grout pump	CNP 106	1	105	-20	Underground Plant	30%	80
Poker, vibratory, hand-held	CNP 170	2	113	-20	Underground Plant	20%	89
Water pump, submersible (electric)	CNP 283	1	85	-20	Underground Plant	100%	65
						<b>Total</b>	<b>91</b>
						<b>Maximim</b>	<b>107</b>
<b>Activity 3 Entrance B Concrete Works</b>							
Air compressor, air flow > 10m <sup>3</sup> /min and <= 30m <sup>3</sup> /min	CNP 002	2	102			80%	104
Bar bender and cutter (electric)	CNP 021	1	90			80%	89
Concrete lorry mixer	CNP 044	2	109			50%	109
Concrete pump, stationary/ lorry mounted	CNP 047	1	109			50%	106
Crane, mobile/ barge mounted (diesel)	CNP 048	1	112			60%	110
Hoist, passenger/ material (electric)	CNP 122	1	95			100%	95
Lorry with crane/grab	CNP 145	1	105			50%	102
Poker, vibratory, hand-held	CNP 170	4	113			50%	116
Saw, circular, wood	CNP 201	1	108			80%	107
Water pump, submersible (electric)	CNP 283	2	85			100%	88
						<b>Total</b>	<b>119</b>

PME	TM or other reference	No. of PME	SWL, dB(A)/unit	Screening Effect, dB(A)	Noise Mitigation Measures	% on time	Total SWL, dB(A)
<b>Activity 1a Rock Slope Excavation</b>							
<b>(Group 1)</b>							
Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	3	102			100%	107
Breaker, hand-held, mass > 10kg and < 20kg	CNP 024	4	108			30%	109
Breaker, excavator mounted (hydraulic)	CNP 028	3	122			30%	122
Crane, mobile/ barge mounted (diesel)	CNP 048	1	112			70%	110
Burster	CNP 051	2	90			25%	87
Generator, super silenced, 70 dB(A) at 7 m	CNP 103	2	95			20%	91
Lorry with crane/grab	CNP 145	2	105			40%	104
Water pump, submersible (electric)	CNP 283	2	85			20%	81
						<b>Total</b>	<b>122</b>
<b>(Group 2)</b>							
Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	3	102			100%	107
Crane, mobile/ barge mounted (diesel)	CNP 048	1	112			70%	110
Generator, super silenced, 70 dB(A) at 7 m	CNP 103	2	95			20%	91
Lorry with crane/grab	CNP 145	2	105			40%	104
Rock Drill	TNS EIA*	3	108			30%	108
Rock drill, hand-held (pneumatic)	CNP 183	2	116			30%	114
Water pump, submersible (electric)	CNP 283	2	85			20%	81
						<b>Total</b>	<b>117</b>
<b>Activity 1b Slope Stabilization</b>							
<b>(Group 1)</b>							
Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	3	102			100%	107
Breaker, hand-held, mass > 10kg and < 20kg	CNP 024	4	108			30%	109
Breaker, excavator mounted (hydraulic)	CNP 028	3	122			30%	122
Generator, super silenced, 70 dB(A) at 7 m	CNP 103	2	95			20%	91
						<b>Total</b>	<b>122</b>
<b>(Group 2)</b>							
Crane, mobile/ barge mounted (diesel)	CNP 048	1	112			70%	110
Generator, super silenced, 70 dB(A) at 7 m	CNP 103	2	95			20%	91
Grout mixer	CNP 105	2	90			50%	90
Grout pump	CNP 106	2	105			50%	105
Lorry with crane/grab	CNP 145	2	105			40%	104
						<b>Total</b>	<b>112</b>
						<b>Maximum</b>	<b>122</b>
<b>Activity 2 Mobilisation work, Site Clearance, Formation, &amp; Works Area</b>							
<b>(Group 1)</b>							
Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	1	102			100%	102
Breaker, excavator mounted (hydraulic)	CNP 028	1	122			30%	117
Crane, mobile/ barge mounted (diesel)	CNP 048	1	112			40%	108
Drill rig, rotary type (diesel)	CNP 072	1	110			60%	108
Generator, super silenced, 70 dB(A) at 7 m	CNP 103	1	95			100%	95
						<b>Total</b>	<b>118</b>
<b>(Group 2)</b>							
Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	1	102			100%	102
Breaker, hand-held, mass > 10kg and < 20kg	CNP 024	2	108			30%	106
Crane, mobile/ barge mounted (diesel)	CNP 048	1	112			40%	108
Generator, super silenced, 70 dB(A) at 7 m	CNP 103	1	95			100%	95
Lorry with crane/grab	CNP 145	2	105			60%	106
						<b>Total</b>	<b>112</b>
<b>(Group 3)</b>							
Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	1	102			100%	102
Concrete lorry mixer	CNP 044	2	109			20%	105
Poker, vibratory, hand-held	CNP 170	2	113			20%	109
						<b>Total</b>	<b>111</b>
						<b>Maximum</b>	<b>118</b>
<b>Activity 3a Piling/Walling (Group 1)</b>							
Press in Piler	TNS EIA*	1	94			50%	91
Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	1	102			100%	102
Generator, super silenced, 70 dB(A) at 7 m	CNP 103	1	95			100%	95
						<b>Total</b>	<b>103</b>
<b>Activity 3a Piling/Walling (Group 2)</b>							
Press in Piler	TNS EIA*	1	94			50%	91
Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	1	102			100%	102
						<b>Total</b>	<b>102</b>
<b>Activity 3b Piling/Walling (same location)</b>							
Press in Piler	TNS EIA*	2	94			50%	94
Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	2	102			100%	105
Generator, super silenced, 70 dB(A) at 7 m	CNP 103	1	95			100%	95
						<b>Total</b>	<b>106</b>
<b>Activity 3c Piling/Walling (underground)</b>							
Press in Piler	TNS EIA*	2	94	-20	Underground plant	50%	74
Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	2	102	-20	Underground plant	100%	85
Generator, super silenced, 70 dB(A) at 7 m	CNP 103	1	95	-20	Underground plant	100%	75
						<b>Total</b>	<b>86</b>

PME	TM or other reference	No. of PME	SWL, dB(A)/unit	Screening Effect, dB(A)	Noise Mitigation Measures	% on time	Total SWL, dB(A)
<b>Activity 4 Temporary Walls and Traffic Deck</b>							
<b>(Group 1)</b>							
Road ripper, mini-robot mounted	CNP 189	4	97			70%	101
Generator, super silenced, 70 dB(A) at 7 m	CNP 103	1	95			100%	95
Water pump, submersible (electric)	CNP 283	2	85			50%	85
Air compressor, air flow > 10m <sup>3</sup> /min and <= 30m <sup>3</sup> /min	CNP 002	4	102			70%	106
Lorry with crane/grab	CNP 145	3	105			20%	103
Ventilation fan	CNP 241	2	108			100%	111
						<b>Total</b>	<b>113</b>
<b>(Group 2)</b>							
Breaker, hand-held, mass > 10kg and < 20kg	CNP 024	8	108			50%	114
Generator, super silenced, 70 dB(A) at 7 m	CNP 103	1	95			100%	95
Water pump, submersible (electric)	CNP 283	2	85			50%	85
Air compressor, air flow > 10m <sup>3</sup> /min and <= 30m <sup>3</sup> /min	CNP 002	4	102			70%	106
Lorry with crane/grab	CNP 145	3	105			20%	103
Ventilation fan	CNP 241	2	108			100%	111
						<b>Total</b>	<b>116</b>
<b>(Group 3)</b>							
Concrete lorry mixer	CNP 044	2	109			50%	109
Crane, mobile/ barge mounted (diesel)	CNP 048	2	112			50%	112
Generator, super silenced, 70 dB(A) at 7 m	CNP 103	1	95			100%	95
Water pump, submersible (electric)	CNP 283	2	85			50%	85
Air compressor, air flow > 10m <sup>3</sup> /min and <= 30m <sup>3</sup> /min	CNP 002	4	102			70%	106
Ventilation fan	CNP 241	2	108			100%	111
						<b>Total</b>	<b>116</b>
						<b>Maximum</b>	<b>116</b>
<b>Activity 5 Excavation - Soil and Shoring</b>							
<b>(Group 1)</b>							
Air compressor, air flow > 10m <sup>3</sup> /min and <= 30m <sup>3</sup> /min	CNP 002	2	102	-20	Underground plant	100%	85
Breaker, hand-held, mass > 10kg and < 20kg	CNP 024	1	108	-20	Underground plant	30%	83
Concrete pump, stationary/ lorry mounted	CNP 047	1	109	-20	Underground plant	50%	86
Dump truck	CNP 067	1	117	-10	Underground plant	50%	104
Drill rig, rotary type (diesel)	CNP 072	2	110	-20	Underground plant	70%	91
Excavator/ loader, wheeled/ tracked	CNP 081	1	112	-10	Underground plant	20%	95
Lorry with crane/grab	CNP 145	1	105	-10	Underground plant	70%	93
Ventilation fan	CNP 241	1	108	-20	Underground plant	100%	88
Winch (electric)	CNP 262	1	95	-10	Underground plant	50%	82
Water pump, submersible (electric)	CNP 283	1	85	-20	Underground plant	100%	65
						<b>Total</b>	<b>105</b>
<b>(Group 2)</b>							
Concrete lorry mixer	CNP 044	1	109	-10	Underground plant	50%	96
Crane, mobile/ barge mounted (diesel)	CNP 048	1	112	-10	Underground plant	70%	100
Grout mixer	CNP 105	1	90	-20	Underground plant	50%	67
Grout pump	CNP 106	1	105	-20	Underground plant	50%	82
Ventilation fan	CNP 241	1	108	-20	Underground plant	100%	88
Water pump, submersible (electric)	CNP 283	1	85	-20	Underground plant	100%	65
						<b>Total</b>	<b>102</b>
						<b>Maximum</b>	<b>105</b>
<b>Activity 6 Removal of Retaining Wall</b>							
Air compressor, air flow > 10m <sup>3</sup> /min and <= 30m <sup>3</sup> /min	CNP 002	1	102	-20	Underground plant	70%	80
Breaker, hand-held, mass > 10kg and < 20kg	CNP 024	3	108	-20	Underground plant	70%	91
Breaker, excavator mounted (hydraulic)	CNP 028	2	122	-20	Underground plant	70%	103
						<b>Total</b>	<b>104</b>
<b>Activity 7 Construction of Station</b>							
Air compressor, air flow > 10m <sup>3</sup> /min and <= 30m <sup>3</sup> /min	CNP 002	2	102	-20	Underground plant	100%	85
Concrete lorry mixer	CNP 044	2	109	-10	Underground plant	50%	99
Concrete pump, stationary/ lorry mounted	CNP 047	1	109	-20	Underground plant	20%	82
Dump truck	CNP 067	2	117	-10	Underground plant	30%	105
Poker, vibratory, hand-held	CNP 170	6	113	-20	Underground plant	50%	98
Ventilation fan	CNP 241	2	108	-20	Underground plant	100%	91
Winch (electric)	CNP 262	1	95	-10	Underground plant	50%	82
Water pump, submersible (electric)	CNP 283	2	85	-20	Underground plant	100%	68
						<b>Total</b>	<b>107</b>

PME	TM or other reference	No. of PME	SWL, dB(A)/unit	Screening Effect, dB(A)	Noise Mitigation Measures	% on time	Total SWL, dB(A)
<b>Activity 8 Construction of Plant Building</b>							
Air compressor, air flow > 10m <sup>3</sup> /min and <= 30m <sup>3</sup> /min	CNP 002	2	102			100%	105
Concrete lorry mixer	CNP 044	2	109			50%	109
Concrete pump, stationary/ lorry mounted	CNP 047	1	109			20%	102
Crane, mobile/ barge mounted (diesel)	CNP 048	1	112			70%	110
Poker, vibratory, hand-held	CNP 170	4	113			50%	116
Water pump, submersible (electric)	CNP 283	1	85			100%	85
Generator, super silenced, 70 dB(A) at 7 m	CNP 103	1	95			100%	95
Lorry with crane/grab	CNP 145	2	105			30%	103
Bar bender and cutter (electric)	CNP 021	1	90			50%	87
Saw, circular, wood	CNP 201	1	108			50%	105
						<b>Total</b>	<b>118</b>
<b>Activity 9 Backfill, Drainage &amp; Road Pavement</b>							
<b>(Group 1)</b>							
Air compressor, air flow > 10m <sup>3</sup> /min and <= 30m <sup>3</sup> /min	CNP 002	1	102			50%	99
Breaker, hand-held, mass > 10kg and < 20kg	CNP 024	2	108			30%	106
Breaker, excavator mounted (pneumatic)	CNP 027	1	122			30%	117
Drill/grinder, hand-held (electric)	CNP 065	2	98			50%	98
Generator, super silenced, 70 dB(A) at 7 m	CNP 103	1	95			50%	92
Lorry with crane/grab	CNP 145	2	105			50%	105
						<b>Total</b>	<b>117</b>
<b>(Group 2)</b>							
Air compressor, air flow > 10m <sup>3</sup> /min and <= 30m <sup>3</sup> /min	CNP 002	1	102			50%	99
Concrete lorry mixer	CNP 044	1	109			20%	102
Crane, mobile/ barge mounted (diesel)	CNP 048	1	112			50%	109
Excavator/ loader, wheeled/ tracked	CNP 081	1	112			50%	109
Generator, super silenced, 70 dB(A) at 7 m	CNP 103	1	95			50%	92
Power rammer (petrol)	CNP 169	1	108			50%	105
						<b>Total</b>	<b>113</b>
<b>(Group 3)</b>							
Asphalt paver	CNP 004	1	109			20%	102
Generator, super silenced, 70 dB(A) at 7 m	CNP 103	1	95			50%	92
Poker, vibratory, hand-held	CNP 170	1	113			50%	110
Roller, vibratory	CNP 186	1	108			50%	105
Road roller	CNP 185	1	108			50%	105
						<b>Total</b>	<b>113</b>
						<b>Maximum</b>	<b>117</b>
<b>Activity 10 EPIW - Footbridge</b>							
<b>(Group 1)</b>							
Air compressor, air flow > 10m <sup>3</sup> /min and <= 30m <sup>3</sup> /min	CNP 002	1	102			100%	102
Breaker, excavator mounted (pneumatic)	CNP 027	1	122			30%	117
Crane, mobile/ barge mounted (diesel)	CNP 048	1	112			100%	112
Generator, super silenced, 70 dB(A) at 7 m	CNP 103	1	95			100%	95
						<b>Total</b>	<b>118</b>
<b>(Group 2)</b>							
Air compressor, air flow > 10m <sup>3</sup> /min and <= 30m <sup>3</sup> /min	CNP 002	1	102			100%	102
Breaker, hand-held, mass > 10kg and < 20kg	CNP 024	1	108			30%	103
Lorry with crane/grab	CNP 145	1	105			50%	102
Generator, super silenced, 70 dB(A) at 7 m	CNP 103	1	95			100%	95
						<b>Total</b>	<b>107</b>
<b>(Group 3)</b>							
Bar bender and cutter (electric)	CNP 021	1	90			80%	89
Concrete lorry mixer	CNP 044	1	109			50%	106
Poker, vibratory, hand-held	CNP 170	2	113			50%	113
Grout pump	CNP 106	1	105			20%	98
Saw, circular, wood	CNP 201	1	108			80%	107
Generator, super silenced, 70 dB(A) at 7 m	CNP 103	1	95			100%	95
						<b>Total</b>	<b>115</b>
						<b>Maximum</b>	<b>118</b>
<b>Activity 11 Material Storage and Site Facilities</b>							
Dump truck	CNP 067	2	117			20%	113
Crane, mobile/ barge mounted (diesel)	CNP 048	1	112			20%	105
Generator, silenced, 75 dB(A) at 7 m	CNP 102	1	100			20%	93
						<b>Total</b>	<b>114</b>

\*TNS EIA refers to Tsim Sha Tsui Northern Subway EIA

PME	TM or other reference	No. of PME	SWL, dB(A)/ unit	% on time	Total SWL, dB(A)
<b>Plant Building</b>					
<b>Activity 1 Rock Excavation</b>					
<b>(Group 1)</b>					
Air compressor, air flow > 10m <sup>3</sup> /min and <= 30m <sup>3</sup> /min	CNP 002	1	102	80%	101
Breaker, hand-held, mass > 10kg and < 20kg	CNP 024	2	108	30%	106
Breaker, excavator mounted (hydraulic)	CNP 028	3	122	40%	123
Crane, mobile/ barge mounted (diesel)	CNP 048	2	112	60%	113
Drill rig, rotary type (diesel)	CNP 072	3	110	70%	113
Generator, super silenced, 70 dB(A) at 7 m	CNP 103	1	95	50%	92
Lorry with crane/grab	CNP 145	2	105	50%	105
Water pump, submersible (electric)	CNP 283	1	85	70%	83
Excavator/ loader, wheeled/ tracked	CNP 081	2	112	70%	113
				<b>Total</b>	<b>124</b>
<b>(Group 2)</b>					
Air compressor, air flow > 10m <sup>3</sup> /min and <= 30m <sup>3</sup> /min	CNP 002	1	102	80%	101
Concrete lorry mixer	CNP 044	2	109	20%	105
Crane, mobile/ barge mounted (diesel)	CNP 048	2	112	60%	113
Generator, super silenced, 70 dB(A) at 7 m	CNP 103	1	95	50%	92
Grout mixer	CNP 105	1	90	70%	88
Grout pump	CNP 106	1	105	70%	103
Poker, vibratory, hand-held	CNP 170	2	113	20%	109
				<b>Total</b>	<b>115</b>
				<b>Maximum</b>	<b>124</b>
<b>Activity 2 Construction of Plant Building</b>					
<b>(Group 1)</b>					
Air compressor, air flow > 10m <sup>3</sup> /min and <= 30m <sup>3</sup> /min	CNP 002	1	102	80%	101
Breaker, hand-held, mass > 10kg and < 20kg	CNP 024	2	108	60%	109
Crane, mobile/ barge mounted (diesel)	CNP 048	1	112	20%	105
Dump truck	CNP 067	2	117	60%	118
Excavator/ loader, wheeled/ tracked	CNP 081	1	112	60%	110
Ventilation fan	CNP 241	1	108	20%	101
Water pump, submersible (electric)	CNP 283	2	85	50%	85
				<b>Total</b>	<b>119</b>
<b>(Group 2)</b>					
Bar bender and cutter (electric)	CNP 021	1	90	20%	83
Breaker, hand-held, mass > 10kg and < 20kg	CNP 024	2	108	60%	109
Concrete lorry mixer	CNP 044	2	109	60%	110
Concrete pump, stationary/ lorry mounted	CNP 047	2	109	80%	111
Crane, mobile/ barge mounted (diesel)	CNP 048	1	112	20%	105
Lorry with crane/grab	CNP 145	2	105	50%	105
Poker, vibratory, hand-held	CNP 170	3	113	100%	118
Saw, circular, wood	CNP 201	1	108	20%	101
				<b>Total</b>	<b>120</b>
				<b>Maximum</b>	<b>120</b>



PME	TM or other reference	No. of PME	SWL, dB(A)/ unit	% on time	Total SWL, dB(A)
<b>Lee Nam Road Barging Point</b>					
<b>Activity 1 Mobilization / Site Clearance &amp; Site Office</b>					
Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	1	102	100%	102
Breaker, hand-held, mass > 10kg and < 20kg	CNP 024	2	108	100%	111
Dump truck	CNP 067	1	117	100%	117
Excavator/ loader, wheeled/ tracked	CNP 081	2	112	100%	115
Saw, circular, wood	CNP 201	1	108	100%	108
				<b>Total</b>	<b>120</b>
<b>Activity 2 Construction of Conveyor Belt</b>					
Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	1	102	50%	99
Concrete lorry mixer	CNP 044	1	109	50%	106
Crane, mobile/ barge mounted (diesel)	CNP 048	1	112	50%	109
Dump truck	CNP 067	1	117	80%	116
Poker, vibratory, hand-held	CNP 170	2	113	100%	116
				<b>Total</b>	<b>120</b>
<b>Activity 3a Operation (Barge)</b>					
Derrick barge	CNP 061	2	104	100%	107
Tug boat	CNP 221	2	110	100%	113
				<b>Total</b>	<b>114</b>
<b>Activity 3b Operation (Crusher)</b>					
Crusher	Anderson Road EIA	1	118	100%	118
				<b>Total</b>	<b>118</b>
<b>Activity 3c Operation (Other Plants)</b>					
Front end loader	BS 5228 Table D.3/97	1	105	100%	105
Conveyor belt	CNP 041	1	90	100%	90
Crane, mobile/ barge mounted (diesel)	CNP 048	1	112	100%	112
Dump truck	CNP 067	2	117	100%	120
				<b>Total</b>	<b>121</b>
<b>Activity 4 Demolition of Barging Point</b>					
Concrete lorry mixer	CNP 044	1	109	100%	109
Crane, mobile/ barge mounted (diesel)	CNP 048	1	112	100%	112
Excavator/ loader, wheeled/ tracked	CNP 081	1	112	100%	112
Lorry with crane/grab	CNP 145	1	105	100%	105
				<b>Total</b>	<b>116</b>
<b>Activity 5 Reprovision of Sitting Out Area</b>					
Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	1	102	100%	102
Asphalt paver	CNP 004	1	109	20%	102
Concrete lorry mixer	CNP 044	1	109	100%	109
Dump truck	CNP 067	1	117	100%	117
Power rammer (petrol)	CNP 169	1	108	100%	108
Poker, vibratory, hand-held	CNP 170	2	113	20%	109
Road roller	CNP 185	1	108	100%	108
				<b>Total</b>	<b>119</b>

PME	TM or other reference	No. of PME	SWL, dB(A)/ unit	% on time	Total SWL, dB(A)
<b>Telegraph Bay Barging Point</b>					
<b>Activity 1 Mobilization and Barging Point Setup - Land Works</b>					
Air compressor, air flow > 10m <sup>3</sup> /min and <= 30m <sup>3</sup> /min	CNP 002	1	102	80%	101
Breaker, hand-held, mass >= 20kg and <= 35kg	CNP 025	1	111	30%	106
Breaker, excavator mounted (hydraulic)	CNP 028	1	122	40%	118
Concrete lorry mixer	CNP 044	1	109	20%	102
Crane, mobile/ barge mounted (diesel)	CNP 048	1	112	60%	110
Excavator/ loader, wheeled/ tracked	CNP 081	1	112	70%	110
Lorry with crane/grab	CNP 145	1	105	50%	102
Poker, vibratory, hand-held	CNP 170	2	113	20%	109
Water pump (petrol)	CNP 282	2	103	70%	104
				<b>Total</b>	<b>120</b>
<b>Activity 2a Marine Piling (Land)</b>					
Grout mixer	CNP 105	1	90	50%	87
Grout pump	CNP 106	1	105	50%	102
Poker, vibratory, hand-held	CNP 170	2	113	50%	113
				<b>Total</b>	<b>113</b>
<b>Activity 2b Marine Piling</b>					
Piling, large diameter bored, grab and chisel	CNP 164	1	115	80%	114
Derrick barge	CNP 061	1	104	80%	103
Crane, mobile/ barge mounted (diesel)	CNP 048	1	112	60%	110
				<b>Total</b>	<b>116</b>
<b>Activity 3 Operation of Barging point</b>					
Excavator/ loader, wheeled/ tracked	CNP 081	1	112	50%	109
Dump truck	CNP 067	10	117	100%	127
Tug boat	CNP 221	1	110	100%	110
Derrick barge	CNP 061	1	104	100%	104
				<b>Total</b>	<b>127</b>
<b>Activity 4a Marine Piling - Demolition (Land)</b>					
Dump truck	CNP 067	10	117	100%	127
Piling, vibrating hammer	CNP 172	1	115	100%	115
				<b>Total</b>	<b>127</b>
<b>Activity 4b Marine Piling - Demolition</b>					
Tug boat	CNP 221	1	110	100%	110
Derrick barge	CNP 061	1	104	100%	104
Crane, mobile/ barge mounted (diesel)	CNP 048	1	112	60%	110
				<b>Total</b>	<b>113</b>

PME	TM or other reference	No. of PME	SWL, dB(A)/ unit	% on time	Total SWL, dB(A)
<b>Activity 1 Mobilisation, Site Set-up</b>					
Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	1	102	80%	101
Breaker, hand-held, mass > 10kg and < 20kg	CNP 024	1	108	30%	103
Breaker, excavator mounted (hydraulic)	CNP 028	1	122	80%	121
Concrete lorry mixer	CNP 044	1	109	20%	102
Crane, mobile/ barge mounted (diesel)	CNP 048	1	112	20%	105
Lorry with crane/grab	CNP 145	1	105	50%	102
Poker, vibratory, hand-held	CNP 170	1	113	20%	106
				<b>Total</b>	<b>121</b>
<b>Activity 2 Slope Stabilization</b>					
Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	1	102	60%	100
Concrete lorry mixer	CNP 044	1	109	50%	106
Crane, mobile/ barge mounted (diesel)	CNP 048	1	112	100%	112
Drill rig, rotary type (diesel)	CNP 072	2	110	80%	112
Excavator/ loader, wheeled/ tracked	CNP 081	1	112	20%	105
Generator, super silenced, 70 dB(A) at 7 m	CNP 103	1	95	80%	94
Grout Mixer	CNP 105	1	90	50%	87
Grout Pump	CNP 106	1	105	50%	102
Lorry with crane/grab	CNP 145	1	105	100%	105
				<b>Total</b>	<b>117</b>
<b>Activity 3 Construction of Magazine site</b>					
Front end loader	BS 5228 Table D.3/97	1	105	20%	98
Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	1	102	50%	99
Breaker, excavator mounted (hydraulic)	CNP 028	2	122	100%	125
Concrete pump, stationary/ lorry mounted	CNP 047	1	109	50%	106
Dump truck	CNP 067	1	90	20%	83
Drill rig, rotary type (diesel)	CNP 072	4	110	80%	115
Excavator/ loader, wheeled/ tracked	CNP 081	1	112	20%	105
Generator, super silenced, 70 dB(A) at 7 m	CNP 103	1	95	100%	95
Grout Mixer	CNP 105	1	110	60%	108
Grout Pump	CNP 106	1	105	60%	103
Road roller	CNP 185	1	108	50%	105
Ventilation fan	CNP 241	1	90	100%	90
				<b>Total</b>	<b>126</b>
<b>Activity 4 Operation of Magazine site</b>					
Dump truck	CNP 067	3	117	20%	115
				<b>Total</b>	<b>115</b>
<b>Activity 5 Demolition of Magazine site</b>					
Excavator/ loader, wheeled/ tracked	CNP 081	1	112	50%	109
Lorry with crane/grab	CNP 145	1	105	50%	102
Concrete lorry mixer	CNP 044	1	109	50%	106
Crane, mobile/ barge mounted (diesel)	CNP 048	1	112	50%	109
				<b>Total</b>	<b>113</b>