

Item	PME	TM or other reference	SWL, dB(A)	No. of PME	% on time	Screening Effect, dB(A)	Noise Mitigation Measures	Total SWL, dB(A)			
1	<b>Zone 1</b>										
	<b>Activity 3 - Excavation</b>										
	Crane, mobile	EPD-01516	101	2	60%	-5	Movable Barrier	97			
	Air compressor, air flow > 30m3/min	CNP 003	104	2	100%	-15	Enclosure	92			
	Excavator, wheeled/tracked	EPD-01230	99	2	60%	-5	Movable Barrier	95			
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	2	100%	-15	Enclosure	83			
	Dump truck, 5.5 tonne < gross vehicle weight =< 38 tonne	[1]	105	3	30%	-5	Movable Barrier	100			
								Total SWL, dB (A)	103		
	<b>Activity 4 - Basement and Underpass</b>										
	Crane, tower (electric)	CNP 049	95	1	50%			92			
	Crane, mobile	EPD-01516	101	2	50%	-5	Movable Barrier	96			
	Crane Lorry 5.5 tonne < gross vehicle weight =< 38 tonne	[1]	105	2	50%	-5	Movable Barrier	100			
	Concrete pump, stationary/ lorry mounted	CNP 047	109	2	50%	-10	Movable Barrier	99			
	Poker, vibratory, hand-held (electric)	[1]	102	10	50%	-10	Movable Barrier	99			
	Bar bender and cutter (electric)	CNP 021	90	2	50%	-10	Movable Barrier	80			
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	2	100%	-15	Enclosure	83			
	Air compressor, air flow > 30m3/min	CNP 003	104	1	100%	-15	Enclosure	89			
	Concrete lorry mixer	CNP 044	109	2	50%	-5	Movable Barrier	104			
								Total SWL, dB (A)	108		
	<b>Activity 5 - Superstructure</b>										
	Crane, tower (electric)	CNP 049	95	1	50%			92			
	Crane, mobile	EPD-01516	101	2	50%	-5	Movable Barrier	96			
	Crane Lorry 5.5 tonne < gross vehicle weight =< 38 tonne	[1]	105	2	50%	-5	Movable Barrier	100			
	Concrete pump, stationary/ lorry mounted	CNP 047	109	2	50%	-10	Movable Barrier	99			
	Poker, vibratory, hand-held (electric)	[1]	102	5	50%	-10	Movable Barrier	96			
	Bar bender and cutter (electric)	CNP 021	90	2	50%	-10	Movable Barrier	80			
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	3	100%	-15	Enclosure	85			
	Air compressor, air flow > 30m3/min	CNP 003	104	1	100%	-15	Enclosure	89			
	Concrete lorry mixer	CNP 044	109	2	50%	-5	Movable Barrier	104			
	Drill/grinder, hand-held (electric)	CNP 065	98	5	30%	-10	Movable Barrier	90			
	Water pump (electric)	CNP 281	88	3	30%	-15	Enclosure	73			
	Excavator, wheeled/tracked	EPD-01230	99	3	30%	-5	Movable Barrier	94			
	Fork Lift Truck	[2]	104	3	30%	-5	Movable Barrier	99			
	Hoist, passenger/ material (electric)	CNP 122	95	3	30%			95			
								Total SWL, dB (A)	108		
	2a	<b>Zone 2 (for area with less plant) [3]</b>									
		<b>Activity 1 - D Walling</b>									
		Crane, mobile	EPD-01516	101	1	60%	-5	Movable Barrier	94		
		Air compressor, air flow > 30m3/min	CNP 003	104	1	100%	-15	Enclosure	89		
		Excavator, wheeled/tracked	EPD-01230	99	1	60%	-5	Movable Barrier	92		
									Total SWL, dB (A)	97	
		<b>Activity 2 - Bored Piling</b>									
		<b>Group 1</b>									
		Crane, mobile	EPD-01516	101	1	60%	-5	Movable Barrier	94		
		Excavator, wheeled/tracked	EPD-01230	99	1	30%	-5	Movable Barrier	89		
		Piling Rig	[2]	112	1	60%	-10	Fabric	100		
		Drill Rig	[1]	110	1	60%	-10	Fabric	98		
		Excavator, wheeled/tracked	EPD-01230	99	1	60%	-5	Movable Barrier	92		
		Piling, large diameter bored, grab and chisel	CNP 164	115	1	60%	-10	Fabric	103		
		Piling, large diameter bored, reverse circulation drill	CNP 166	100	1	60%	-10	Fabric	88		
		Piling, large diameter bored, oscillator	CNP 165	115	1	60%	-10	Fabric	103		
		Air compressor, air flow > 30m3/min	CNP 003	104	1	100%	-15	Enclosure	89		
		Welding Set	[2]	78	1	60%	-10	Movable Barrier	66		
									Total SWL, dB (A)	108	
		<b>Group 2</b>									
		Crane, mobile	EPD-01516	101	1	60%	-5	Movable Barrier	94		
		Grout Mixer	[1]	90	1	60%	-10	Movable Barrier	78		
		Grout Pump	[1]	105	1	60%	-10	Movable Barrier	93		
		Bar bender and cutter (electric)	CNP 021	90	1	60%	-10	Movable Barrier	78		
		Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	1	100%	-15	Enclosure	80		
									Total SWL, dB (A)	97	
									Maximum SWL, dB (A) of Activity 2	108	
		<b>Activity 3 - Excavation</b>									
		Crane, mobile	EPD-01516	101	1	60%	-5	Movable Barrier	94		
		Air compressor, air flow > 30m3/min	CNP 003	104	1	100%	-15	Enclosure	89		
		Excavator, wheeled/tracked	EPD-01230	99	1	60%	-5	Movable Barrier	92		
		Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	1	100%	-15	Enclosure	80		
		Dump truck, 5.5 tonne < gross vehicle weight =< 38 tonne	[1]	105	1	30%	-5	Movable Barrier	95		
									Total SWL, dB (A)	99	
		<b>Activity 4 - Basement and Underpass</b>									
		Crane, mobile	EPD-01516	101	1	60%	-5	Movable Barrier	94		
		Crane Lorry 5.5 tonne < gross vehicle weight =< 38 tonne	[1]	105	1	60%	-5	Movable Barrier	98		
		Concrete pump, stationary/ lorry mounted	CNP 047	109	1	60%	-10	Movable Barrier	97		
		Poker, vibratory, hand-held (electric)	[1]	102	5	60%	-10	Movable Barrier	97		
		Bar bender and cutter (electric)	CNP 021	90	1	60%	-10	Movable Barrier	78		
		Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	1	100%	-15	Enclosure	80		
		Concrete lorry mixer	CNP 044	109	1	60%	-5	Movable Barrier	102		
									Total SWL, dB (A)	105	
		2b	<b>Zone 2 (for area with more plant) [3]</b>								
			<b>Activity 1 - D Walling</b>								
			Crane, mobile	EPD-01516	101	1	60%	-5	Movable Barrier	94	
			Air compressor, air flow > 30m3/min	CNP 003	104	1	100%	-15	Enclosure	89	
			Piling, diaphragm wall, hydraulic extractor	CNP 163	90	1	60%	-10	Fabric	78	
			Excavator, wheeled/tracked	EPD-01230	99	1	60%	-5	Movable Barrier	92	
			Grout Mixer	[1]	90	1	60%	-10	Movable Barrier	78	
			Water pump, submersible (electric)	CNP 283	85	1	60%	-15	Enclosure	68	
			Dump truck, 5.5 tonne < gross vehicle weight =< 38 tonne	[1]	105	1	30%	-5	Movable Barrier	95	
			Concrete lorry mixer	CNP 044	109	1	60%	-5	Movable Barrier	102	
			Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	1	100%	-15	Enclosure	80	
										Total SWL, dB (A)	104

Item	PME	TM or other reference	SWL, dB(A)	No. of PME	% on time	Screening Effect, dB(A)	Noise Mitigation Measures	Total SWL, dB(A)
<b>Activity 2 - Bored Piling</b>								
<b>Group 1</b>								
	Crane, mobile	EPD-01516	101	1	60%	-5	Movable Barrier	94
	Excavator, wheeled/tracked	EPD-01230	99	1	30%	-5	Movable Barrier	89
	Piling Rig	[2]	112	1	60%	-10	Fabric	100
	Drill Rig	[1]	110	1	60%	-10	Fabric	98
	Excavator, wheeled/tracked	EPD-01230	99	1	60%	-5	Movable Barrier	92
	Piling, large diameter bored, grab and chisel	CNP 164	115	1	60%	-10	Fabric	103
	Piling, large diameter bored, reverse circulation drill	CNP 166	100	1	60%	-10	Fabric	88
	Piling, large diameter bored, oscillator	CNP 165	115	1	60%	-10	Fabric	103
	Air compressor, air flow > 30m3/min	CNP 003	104	1	100%	-15	Enclosure	89
	Welding Set	[2]	78	1	60%	-10	Movable Barrier	66
	Total SWL, dB (A)							<b>108</b>
<b>Group 2</b>								
	Crane, mobile	EPD-01516	101	1	60%	-5	Movable Barrier	94
	Grout Mixer	[1]	90	1	60%	-10	Movable Barrier	78
	Grout Pump	[1]	105	1	60%	-10	Movable Barrier	93
	Bar bender and cutter (electric)	CNP 021	90	1	60%	-10	Movable Barrier	78
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	1	100%	-15	Enclosure	80
	Dump truck, 5.5 tonne < gross vehicle weight =< 38 tonne	[1]	105	1	30%	-5	Movable Barrier	95
	Concrete lorry mixer	CNP 044	109	1	60%	-5	Movable Barrier	102
	Total SWL, dB (A)							<b>104</b>
	Maximum SWL, dB (A) of Activity 2							<b>108</b>
<b>Activity 3 - Excavation</b>								
	Crane, mobile	EPD-01516	101	1	60%	-5	Movable Barrier	94
	Air compressor, air flow > 30m3/min	CNP 003	104	1	100%	-15	Enclosure	89
	Excavator, wheeled/tracked	EPD-01230	99	1	60%	-5	Movable Barrier	92
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	1	100%	-15	Enclosure	80
	Dump truck, 5.5 tonne < gross vehicle weight =< 38 tonne	[1]	105	2	30%	-5	Movable Barrier	98
	Total SWL, dB (A)							<b>100</b>
<b>Activity 4 - Basement and Underpass</b>								
	Crane, tower (electric)	CNP 049	95	1	60%			93
	Crane, mobile	EPD-01516	101	1	60%	-5	Movable Barrier	94
	Crane Lorry 5.5 tonne < gross vehicle weight =< 38 tonne	[1]	105	1	60%	-5	Movable Barrier	98
	Concrete pump, stationary/ lorry mounted	CNP 047	109	1	60%	-10	Movable Barrier	97
	Poker, vibratory, hand-held (electric)	[1]	102	5	60%	-10	Movable Barrier	97
	Bar bender and cutter (electric)	CNP 021	90	1	60%	-10	Movable Barrier	78
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	1	100%	-15	Enclosure	80
	Air compressor, air flow > 30m3/min	CNP 003	104	1	100%	-15	Enclosure	89
	Concrete lorry mixer	CNP 044	109	1	60%	-5	Movable Barrier	102
	Total SWL, dB (A)							<b>106</b>
3	<b>Zone 3</b>							
<b>Activity 1 - D Walling</b>								
	Crane, mobile	EPD-01516	101	4	60%	-5	Movable Barrier	100
	Air compressor, air flow > 30m3/min	CNP 003	104	4	100%	-15	Enclosure	95
	Piling, diaphragm wall, hydraulic extractor	CNP 163	90	2	60%	-10	Fabric	81
	Excavator, wheeled/tracked	EPD-01230	99	4	60%	-5	Movable Barrier	98
	Grout Mixer	[1]	90	2	60%	-10	Movable Barrier	81
	Water pump, submersible (electric)	CNP 283	85	3	60%	-15	Enclosure	73
	Dump truck, 5.5 tonne < gross vehicle weight =< 38 tonne	[1]	105	2	30%	-5	Movable Barrier	98
	Concrete lorry mixer	CNP 044	109	2	60%	-5	Movable Barrier	105
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	2	100%	-15	Enclosure	83
	Total SWL, dB (A)							<b>107</b>
<b>Activity 2 - Bored Piling</b>								
	Crane, mobile	EPD-01516	101	4	60%	-5	Movable Barrier	100
	Excavator, wheeled/tracked	EPD-01230	99	4	30%	-5	Movable Barrier	95
	Piling Rig	[2]	112	4	60%	-10	Fabric	106
	Drill Rig	[1]	110	4	60%	-10	Fabric	104
	Excavator, wheeled/tracked	EPD-01230	99	4	60%	-5	Movable Barrier	98
	Piling, large diameter bored, grab and chisel	CNP 164	115	4	60%	-10	Fabric	109
	Piling, large diameter bored, reverse circulation drill	CNP 166	100	4	60%	-10	Fabric	94
	Piling, large diameter bored, oscillator	CNP 165	115	4	60%	-10	Fabric	109
	Air compressor, air flow > 30m3/min	CNP 003	104	4	100%	-10	Enclosure	100
	Grout Mixer	[1]	90	4	60%	-10	Movable Barrier	84
	Grout Pump	[1]	105	4	60%	-10	Movable Barrier	99
	Bar bender and cutter (electric)	CNP 021	90	4	60%	-10	Movable Barrier	84
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	4	100%	-15	Enclosure	86
	Dump truck, 5.5 tonne < gross vehicle weight =< 38 tonne	[1]	105	2	30%	-5	Movable Barrier	98
	Concrete lorry mixer	CNP 044	109	2	60%	-5	Movable Barrier	105
	Welding Set	[2]	78	4	60%	-10	Movable Barrier	72
	Total SWL, dB (A)							<b>115</b>
4	<b>Park Construction - Zone A</b>							
<b>Activity 1 - Park Construction [4]</b>								
	Dump truck, 5.5 tonne < gross vehicle weight =< 38 tonne	[1]	105	2	60%	-5	Movable Barrier	101
	Crane, mobile	EPD-01516	101	2	60%	-5	Movable Barrier	97
	Excavator, wheeled/tracked	EPD-01230	99	2	60%	-5	Movable Barrier	95
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	2	100%	-15	Enclosure	83
	Lorry	CNP 141	112	2	60%	-5	Movable Barrier	108
	Total SWL, dB (A)							<b>109</b>
<b>Activity 2 - Superstructure [4]</b>								
	Crane, tower (electric)	CNP 049	95	1	50%			92
	Crane, mobile	EPD-01516	101	2	50%	-5	Movable Barrier	96
	Crane Lorry 5.5 tonne < gross vehicle weight =< 38 tonne	[1]	105	2	50%	-5	Movable Barrier	100
	Concrete pump, stationary/ lorry mounted	CNP 047	109	2	50%	-10	Movable Barrier	99
	Poker, vibratory, hand-held (electric)	[1]	102	5	50%	-10	Movable Barrier	96
	Bar bender and cutter (electric)	CNP 021	90	2	50%	-10	Movable Barrier	80
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	3	100%	-15	Enclosure	85
	Air compressor, air flow > 30m3/min	CNP 003	104	1	100%	-15	Enclosure	89
	Concrete lorry mixer	CNP 044	109	2	50%	-5	Movable Barrier	104
	Drill/grinder, hand-held (electric)	CNP 065	98	5	30%	-10	Movable Barrier	90
	Water pump (electric)	CNP 281	88	3	30%	-15	Enclosure	73
	Excavator, wheeled/tracked	EPD-01230	99	3	30%	-5	Movable Barrier	94
	Fork Lift Truck	[2]	104	3	30%	-5	Movable Barrier	99
	Hoist, passenger/ material (electric)	CNP 122	95	3	30%			95
	Total SWL, dB (A)							<b>108</b>
	Maximum SWL, dB (A)							<b>109</b>

Item	PME	TM or other reference	SWL, dB(A)	No. of PME	% on time	Screening Effect, dB(A)	Noise Mitigation Measures	Total SWL, dB(A)	
5/6	<b>ICC Footbridge / Flyover</b>								
	<b>Group 1</b>								
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	1	100%	-15	Enclosure	87	
	Breaker, hand-held, mass > 35kg	CNP 026	114	2	30%	-10	Movable Barrier	102	
	Crane, mobile	EPD-01516	101	1	100%	-5	Movable Barrier	96	
	Crane Lorry 5.5 tonne < gross vehicle weight <= 38 tonne	[1]	105	1	70%	-5	Movable Barrier	98	
	Bar bender and cutter (electric)	CNP 021	90	1	80%	-10	Movable Barrier	79	
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	1	100%	-15	Enclosure	80	
	Total SWL, dB (A)							<b>104</b>	
	<b>Group 2</b>								
	Breaker, hand-held, mass > 35kg	CNP 026	114	2	30%	-10	Movable Barrier	102	
	Breaker, hand-held, mass > 10kg and < 20kg	CNP 024	108	1	30%	-10	Movable Barrier	93	
	Concrete lorry mixer	CNP 044	109	1	50%	-5	Movable Barrier	101	
	Poker, vibratory, hand-held (electric)	[1]	102	2	50%	-10	Movable Barrier	92	
	Grout pump	[1]	105	1	20%	-10	Movable Barrier	88	
	Saw, circular, wood	CNP 201	108	1	80%	-10	Movable Barrier	97	
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	1	100%	-15	Enclosure	80	
	Total SWL, dB (A)							<b>106</b>	
	Maximum SWL, dB (A)							<b>106</b>	
	7	<b>East Concrete Batching Plant (Operation)</b>							
		<b>Group 1</b>							
		Excavator, wheeled/tracked	EPD-01230	99	1	60%	-5	Movable Barrier	92
		Concrete mixer (electric)	CNP 045	96	1	60%	-10	Movable Barrier	84
		Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	2	60%	-15	Enclosure	81
Concrete mixer (petrol)		CNP 046	96	3	60%	-10	Movable Barrier	89	
Concrete lorry mixer		CNP 044	109	2	60%	-5	Movable Barrier	105	
Batching plant		CNP 022	108	1	60%			106	
Air compressor, air flow > 10m3/min and <= 30m3/min		CNP 002	102	2	60%	-15	Enclosure	88	
Dump truck, 5.5 tonne < gross vehicle weight <= 38 tonne		[1]	105	1	30%	-5	Movable Barrier	95	
Total SWL, dB (A)							<b>109</b>		
<b>Group 2</b>									
Excavator, wheeled/tracked		EPD-01230	99	1	60%	-5	Movable Barrier	92	
Concrete mixer (electric)		CNP 045	96	1	60%	-10	Movable Barrier	84	
Generator, super silenced, 70 dB(A) at 7 m		CNP 103	95	2	60%	-15	Enclosure	81	
Concrete mixer (petrol)		CNP 046	96	3	60%	-10	Movable Barrier	89	
Concrete lorry mixer		CNP 044	109	2	60%	-5	Movable Barrier	105	
Batching plant		CNP 022	108	1	60%			106	
Air compressor, air flow > 10m3/min and <= 30m3/min		CNP 002	102	2	60%	-15	Enclosure	88	
Dump truck, 5.5 tonne < gross vehicle weight <= 38 tonne		[1]	105	1	30%	-5	Movable Barrier	95	
Total SWL, dB (A)							<b>109</b>		
Maximum SWL, dB (A)							<b>109</b>		
8		<b>Barging Points</b>							
		Derrick barge	CNP 061	104	1	60%			102
	Tug boat	CNP 221	110	1	60%			108	
	Dump truck, 5.5 tonne < gross vehicle weight <= 38 tonne	[1]	105	6	30%	-5	Movable Barrier	103	
	Excavator, wheeled/tracked	EPD-01230	99	1	60%	-5	Movable Barrier	92	
	Conveyor belt	CNP 041	90	1	60%			88	
	Total SWL, dB (A)							<b>110</b>	
9/10	<b>Pier Construction (Optional)</b>								
	<b>Group 1</b>								
	Piling, large diameter bored, reverse circulation drill	CNP 166	100	1	100%	-10	Fabric	90	
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	1	60%	-5	Movable Barrier	105	
	Tug boat	CNP 221	110	1	60%			108	
	Total SWL, dB (A)							<b>110</b>	
	<b>Group 2</b>								
	Concrete pump, stationary/ lorry mounted	CNP 047	109	2	100%	-10	Movable Barrier	102	
	Concrete lorry mixer	CNP 044	109	4	60%	-5	Movable Barrier	108	
	Water pump (electric)	CNP 281	88	4	100%			94	
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	2	100%			98	
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	2	100%	-15	Enclosure	90	
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	1	60%	-5	Movable Barrier	105	
	Tug boat	CNP 221	110	1	60%			108	
	Total SWL, dB (A)							<b>112</b>	
	<b>Group 3</b>								
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	1	60%	-5	Movable Barrier	105	
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	2	100%	-15	Enclosure	90	
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	2	100%			98	
	Concrete pump, stationary/ lorry mounted	CNP 047	109	2	100%	-10	Movable Barrier	102	
	Concrete lorry mixer	CNP 044	109	2	60%	-5	Movable Barrier	105	
	Poker, vibratory, hand-held (electric)	[1]	102	4	80%	-10	Movable Barrier	97	
	Tug boat	CNP 221	110	1	60%			108	
	Total SWL, dB (A)							<b>112</b>	
Maximum SWL, dB (A)							<b>112</b>		
11	<b>Viewing Platform (Optional)</b>								
	<b>Group 1</b>								
	Piling, large diameter bored, reverse circulation drill	CNP 166	100	1	100%	-10	Fabric	90	
	Crane, mobile	EPD-01516	101	1	80%	-5	Movable Barrier	95	
	Tug boat	CNP 221	110	1	60%			108	
	Total SWL, dB (A)							<b>108</b>	
	<b>Group 2</b>								
	Crane, mobile	EPD-01516	101	2	100%			104	
	Total SWL, dB (A)							<b>104</b>	
	Maximum SWL, dB (A)							<b>108</b>	

Note: [1] Details extracted from EPD website: [http://www.epd.gov.hk/epd/english/application\\_for\\_licences/guidance/files/OtherSWLe.pdf](http://www.epd.gov.hk/epd/english/application_for_licences/guidance/files/OtherSWLe.pdf)

[2] SWL of Welding Plant and Piling Rig are referred to the Appendix 5.1 of approved EIA Report of Hong Kong Section of Guangzhou - Shenzhen - Hong Kong Express Rail Link (AEIAR-143/2009)

[3] More plant have been assumed at the zones near the NSR for conservative approach.

[4] Activities Park Construction and Superstructure in Zone A are at same period but will not be carried out simultaneously.

**Mitigated Construction Noise Impact**

**NSR: HT1 (The Harbourside Tower 1)**

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB (A)	Facade Correction,	Calculated SPL, dB(A)	2014												2015		
						4	5	6	7	8	9	10	11	12	1	2	3			
<b>1) Zone 1</b>																				
Activity 3 - Excavation	103	481	-62	3	44	44	44	44	44											
Activity 4 - Basement and Underpass	108	481	-62	3	49			49	49	49	49									
Activity 5 - Superstructure	108	481	-62	3	50									50	50	50	50			
<b>2) Zone 2</b>																				
Activity 1 - D Walling																				
Zone 2.1	104	79	-46	3	61	61	61	61	61	61										
Zone 2.2	104	79	-46	3	61	61	61	61	61	61										
Zone 2.3	97	174	-53	3	47	47	47	47	47	47										
Zone 2.4	97	327	-58	3	41	41	41	41	41	41										
Zone 2.5	97	377	-60	3	40	40	40	40	40	40										
Zone 2.6	97	277	-57	3	43	43	43	43	43	43										
Zone 2.7	104	253	-56	3	51	51	51	51	51	51										
Zone 2.8	104	267	-57	3	50	50	50	50	50	50										
Activity 2 - Bored Piling																				
Zone 2.1	108	79	-46	3	65	65	65	65	65	65	65	65	65							
Zone 2.2	108	79	-46	3	65	65	65	65	65	65	65	65	65							
Zone 2.3	108	174	-53	3	58	58	58	58	58	58	58	58	58							
Zone 2.4	108	327	-58	3	52	52	52	52	52	52	52	52	52							
Zone 2.5	108	377	-60	3	51	51	51	51	51	51	51	51	51							
Zone 2.6	108	277	-57	3	54	54	54	54	54	54	54	54	54							
Zone 2.7	108	253	-56	3	55	55	55	55	55	55	55	55	55							
Zone 2.8	108	267	-57	3	54	54	54	54	54	54	54	54	54							
Activity 3 - Excavation																				
Zone 2.1	100	116	-49	3	54						54	54	54	54	54	54	54			
Zone 2.2	100	102	-48	3	55						55	55	55	55	55	55	55			
Zone 2.3	99	203	-54	3	48						48	48	48	48	48	48	48			
Zone 2.4	99	357	-59	3	43						43	43	43	43	43	43	43			
Zone 2.5	99	377	-60	3	42						42	42	42	42	42	42	42			
Zone 2.6	99	258	-56	3	46						46	46	46	46	46	46	46			
Zone 2.7	100	179	-53	3	50						50	50	50	50	50	50	50			
Zone 2.8	100	228	-55	3	48						48	48	48	48	48	48	48			
Activity 4 - Basement and Underpass																				
Zone 2.1	106	116	-49	3	59									59	59	59	59			
Zone 2.2	106	102	-48	3	60									60	60	60	60			
Zone 2.3	105	203	-54	3	54									54	54	54	54			
Zone 2.4	105	357	-59	3	49									49	49	49	49			
Zone 2.5	105	377	-60	3	49									49	49	49	49			
Zone 2.6	105	258	-56	3	52									52	52	52	52			
Zone 2.7	106	179	-53	3	56									56	56	56	56			
Zone 2.8	106	228	-55	3	53									53	53	53	53			
<b>3) Zone 3</b>																				
Activity 1 - D Walling																				
Activity 2 - Bored Piling																				
4) Park Construction - Zone A	109	576	-63	3	49	49	49	49	49	49	49	49	49	49	49	49	49			
5) ICC Footbridge	106	211	-54	3	54	54	54	54	54	54	54	54	54							
6) Flyover	106	287	-57	3	52						52	52	52	52	52	52	52			
7) East Concrete Batching Plant (Operation)	109	461	-61	3	50	50	50	50	50	50	50	50	50	50	50	50	50			
<b>8) Barqing Point (BP)</b>																				
BP4	110	307	-58	3	55	55	55	55	55	55	55	55	55	55	55	55	55			
BP5	110	327	-58	3	54	54	54	54	54	54	54	54	54	54	54	54	54			
BP6	110	506	-62	3	51	51	51	51	51	51	51	51	51	51	51	51	51			
BP7	110	616	-64	3	49	49	49	49	49	49	49	49	49	49	49	49	49			
9) West Pier (Optional)	112	846	-67	3	49	49	49	49	49	49	49	49	49	49	49	49	49			
10) South Pier (Optional)	112	347	-59	3	57	57	57	57	57	57	57	57	57	57	57	57	57			
11) Viewing Platform (Optional)	108	342	-59	3	52	52	52	52	52	52	52	52	52	52	52	52	52			
<b>Predicted Noise Level of this Project, dB (A)</b>																				
<b>Predicted Noise Level of Express Rail Link, dB(A)<sup>1</sup></b>																				
<b>Predicted Noise Level of Road Works at West Kowloon, dB(A)<sup>2</sup></b>																				
<b>Overall Cumulative Noise Level, dB(A)</b>																				
														2014	2015					
														Min	Max	Min	Max			
														70	69	69	69			
														Min	Max	Min	Max			
														74	73	73	73			

Note: Bold figure in shaded box denotes exceedance of relevant construction noise criteria

- 1) Predicted Noise Levels are referred to NSR WK9 in Appendix 5.8 of approved EIA of Express Rail Link (AEIAR-143/2009). Delaying of 6 months of WKT construction programme in VEP have been included in predicted noise level.
- 2) Predicted Noise Levels are referred to NSR Arch4 in Appendix 3.13 of approved EIA of Road Works at West Kowloon (AEIAR-141/2009) for conservative approach.
- 3) Since the NSR is located out of the 300m assessment area of the construction works of "Proposed Road Improvement Works in West Kowloon Reclamation" project, the cumulative noise impact is predicted to be low and has insignificant contribution to the NSR, therefore, cumulative noise impact is not taken into account at this NSR.
- 4) Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.
- 5) Phase 1 Concrete Batching Plant in Environmental Review for Proposed West Kowloon Terminus Concrete Batching Facility will be handed over to WKCD starting from the year of 2014. Since the operation of concreting batching plants before 2014 and the operation and demolition of phase 2 concreting batching plant have already been included in the noise impact assessment of the XRL project, separate noise impact assessment will only be calculated after handing over the phase 1 concrete batching plant to WKCD starting from the year of 2014.

**Mitigated Construction Noise Impact**

**NSR: HT3 (The Harbourside Tower 3)**

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB (A)	Facade Correction,	Calculated SPL, dB(A)	2014												2015									
						4	5	6	7	8	9	10	11	12	1	2	3										
<b>1) Zone 1</b>																											
Activity 3 - Excavation	103	576	-63	3	42	42	42	42	42																		
Activity 4 - Basement and Underpass	108	576	-63	3	47				47	47	47	47															
Activity 5 - Superstructure	108	576	-63	3	48									48	48	48	48										
<b>2) Zone 2</b>																											
Activity 1 - D Walling																											
Zone 2.1	104	97	-48	3	59	59	59	59	59	59																	
Zone 2.2	104	135	-51	3	56	56	56	56	56	56																	
Zone 2.3	97	263	-56	3	43	43	43	43	43	43																	
Zone 2.4	97	412	-60	3	39	39	39	39	39	39																	
Zone 2.5	97	471	-61	3	38	38	38	38	38	38																	
Zone 2.6	97	352	-59	3	41	41	41	41	41	41																	
Zone 2.7	104	277	-57	3	50	50	50	50	50	50																	
Zone 2.8	104	272	-57	3	50	50	50	50	50	50																	
Activity 2 - Bored Piling																											
Zone 2.1	108	97	-48	3	63	63	63	63	63	63	63	63															
Zone 2.2	108	135	-51	3	60	60	60	60	60	60	60	60															
Zone 2.3	108	263	-56	3	54	54	54	54	54	54	54	54															
Zone 2.4	108	412	-60	3	50	50	50	50	50	50	50	50															
Zone 2.5	108	471	-61	3	49	49	49	49	49	49	49	49															
Zone 2.6	108	352	-59	3	52	52	52	52	52	52	52	52															
Zone 2.7	108	277	-57	3	54	54	54	54	54	54	54	54															
Zone 2.8	108	272	-57	3	54	54	54	54	54	54	54	54															
Activity 3 - Excavation																											
Zone 2.1	100	111	-49	3	54					54	54	54	54	54	54	54	54										
Zone 2.2	100	169	-53	3	51					51	51	51	51	51	51	51	51										
Zone 2.3	99	302	-58	3	44					44	44	44	44	44	44	44	44										
Zone 2.4	99	446	-61	3	41					41	41	41	41	41	41	41	41										
Zone 2.5	99	456	-61	3	41					41	41	41	41	41	41	41	41										
Zone 2.6	99	342	-59	3	43					43	43	43	43	43	43	43	43										
Zone 2.7	100	228	-55	3	48					48	48	48	48	48	48	48	48										
Zone 2.8	100	208	-54	3	49					49	49	49	49	49	49	49	49										
Activity 4 - Basement and Underpass																											
Zone 2.1	106	111	-49	3	60									60	60	60	60										
Zone 2.2	106	169	-53	3	56									56	56	56	56										
Zone 2.3	105	302	-58	3	51									51	51	51	51										
Zone 2.4	105	446	-61	3	47									47	47	47	47										
Zone 2.5	105	456	-61	3	47									47	47	47	47										
Zone 2.6	105	342	-59	3	50									50	50	50	50										
Zone 2.7	106	228	-55	3	53									53	53	53	53										
Zone 2.8	106	208	-54	3	54									54	54	54	54										
<b>3) Zone 3</b>																											
Activity 1 - D Walling	107	189	-54	3	57	57	57	57	57	57	57																
Activity 2 - Bored Piling	115	189	-54	3	64					64	64	64	64	64	64	64	64										
<b>4) Park Construction - Zone A</b>																											
5) ICC Footbridge	106	125	-50	3	59	59	59	59	59	59	59	59	59	59	59	59	59										
6) Flyover	106	198	-54	3	55					55	55	55	55	55	55	55	55										
7) East Concrete Batching Plant (Operation)	109	554	-63	3	49	49	49	49	49	49	49	49	49	49	49	49	49										
<b>8) Barqing Point (BP)</b>																											
BP4	110	302	-58	3	55	55	55	55	55	55	55	55	55	55	55	55	55										
BP5	110	312	-58	3	55	55	55	55	55	55	55	55	55	55	55	55	55										
BP6	110	461	-61	3	52	52	52	52	52	52	52	52	52	52	52	52	52										
BP7	110	576	-63	3	50	50	50	50	50	50	50	50	50	50	50	50	50										
9) West Pier (Optional)	112	756	-66	3	50	50	50	50	50	50	50	50	50	50	50	50	50										
10) South Pier (Optional)	112	327	-58	3	57	57	57	57	57	57	57	57	57	57	57	57	57										
11) Viewing Platform (Optional)	108	412	-60	3	51	51	51	51	51	51	51	51	51	51	51	51	51										
<b>Predicted Noise Level of this Project, dB (A)</b>																69	69	69	70	71	70	70	71	69	69	69	69
<b>Predicted Noise Level of Express Rail Link, dB(A)<sup>1</sup></b>																63	63	63						47	47	47	47
<b>Predicted Noise Level of Road Works at West Kowloon, dB(A)<sup>2</sup></b>																68	67	67	67	67	67						
<b>Overall Cumulative Noise Level, dB(A)</b>																72	72	72	71	72	72	70	71	69	69	69	69
																2014		2015									
																Min	Max	Min	Max								

Note: Bold figure in shaded box denotes exceedance of relevant construction noise criteria

- 1) Predicted Noise Levels are referred to NSR WK10 in Appendix 5.8 of approved EIA of Express Rail Link (AEIAR-143/2009). Delaying of 6 months of WKT construction programme in VEP have been included in predicted noise level.
- 2) Predicted Noise Levels are referred to NSR HARB2 in Appendix 3.13 of approved EIA of Road Works at West Kowloon (AEIAR-141/2009) for conservative approach.
- 3) Since the NSR is located out of the 300m assessment area of the construction works of "Proposed Road Improvement Works in West Kowloon Reclamation" project, the cumulative noise impact is predicted to be low and has insignificant contribution to the NSR, therefore, cumulative noise impact is not taken into account at this NSR.
- 4) Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.
- 5) Phase 1 Concrete Batching Plant in Environmental Review for Proposed West Kowloon Terminus Concrete Batching Facility will be handed over to WKCD starting from the year of 2014. Since the operation of concreting batching plants before 2014 and the operation and demolition of phase 2 concreting batching plant have already been included in the noise impact assessment of the XRL project, separate noise impact assessment will only be calculated after handing over the phase 1 concrete batching plant to WKCD starting from the year of 2014.

**Mitigated Construction Noise Impact**

**NSR: AST (The Arch - Sun Tower)**

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB (A)	Facade Correction,	Calculated SPL, dB(A)	2014												2015			
						4	5	6	7	8	9	10	11	12	1	2	3				
<b>1) Zone 1</b>																					
Activity 3 - Excavation	103	391	-60	3	46	46	46	46	46	46											
Activity 4 - Basement and Underpass	108	391	-60	3	51			51	51	51	51										
Activity 5 - Superstructure	108	391	-60	3	51								51	51	51	51	51				
<b>2) Zone 2</b>																					
Activity 1 - D Walling																					
Zone 2.1	104	130	-50	3	56	56	56	56	56	56											
Zone 2.2	104	73	-45	3	61	61	61	61	61	61											
Zone 2.3	104	96	-48	3	59	59	59	59	59	59											
Zone 2.4	97	228	-55	3	45	45	45	45	45	45											
Zone 2.5	97	312	-58	3	42	42	42	42	42	42											
Zone 2.6	97	247	-56	3	44	44	44	44	44	44											
Zone 2.7	104	252	-56	3	51	51	51	51	51	51											
Zone 2.8	97	302	-58	3	42	42	42	42	42	42											
Activity 2 - Bored Piling																					
Zone 2.1	108	130	-50	3	60	60	60	60	60	60	60	60									
Zone 2.2	108	73	-45	3	65	65	65	65	65	65	65	65									
Zone 2.3	108	96	-48	3	63	63	63	63	63	63	63	63									
Zone 2.4	108	228	-55	3	56	56	56	56	56	56	56	56									
Zone 2.5	108	312	-58	3	53	53	53	53	53	53	53	53									
Zone 2.6	108	247	-56	3	55	55	55	55	55	55	55	55									
Zone 2.7	108	252	-56	3	55	55	55	55	55	55	55	55									
Zone 2.8	108	302	-58	3	53	53	53	53	53	53	53	53									
Activity 3 - Excavation																					
Zone 2.1	100	178	-53	3	50					50	50	50	50	50	50	50	50				
Zone 2.2	100	92	-47	3	56					56	56	56	56	56	56	56	56				
Zone 2.3	100	139	-51	3	52					52	52	52	52	52	52	52	52				
Zone 2.4	99	257	-56	3	46					46	46	46	46	46	46	46	46				
Zone 2.5	99	302	-58	3	44					44	44	44	44	44	44	44	44				
Zone 2.6	99	203	-54	3	48					48	48	48	48	48	48	48	48				
Zone 2.7	100	188	-53	3	50					50	50	50	50	50	50	50	50				
Zone 2.8	99	282	-57	3	45					45	45	45	45	45	45	45	45				
Activity 4 - Basement and Underpass																					
Zone 2.1	106	178	-53	3	56								56	56	56	56	56				
Zone 2.2	106	92	-47	3	61								61	61	61	61	61				
Zone 2.3	106	139	-51	3	58								58	58	58	58	58				
Zone 2.4	105	257	-56	3	52								52	52	52	52	52				
Zone 2.5	105	302	-58	3	51								51	51	51	51	51				
Zone 2.6	105	203	-54	3	54								54	54	54	54	54				
Zone 2.7	106	188	-53	3	55								55	55	55	55	55				
Zone 2.8	105	282	-57	3	51								51	51	51	51	51				
<b>3) Zone 3</b>																					
Activity 1 - D Walling	107	362	-59	3	51	51	51	51	51	51	51	51	51	51	51	51	51				
Activity 2 - Bored Piling	115	362	-59	3	58					58	58	58	58	58	58	58	58				
<b>4) Park Construction - Zone A</b>																					
5) ICC Footbridge	106	298	-57	3	51	51	51	51	51	51	51	51	51	51	51	51	51				
6) Flyover	106	379	-60	3	49					49	49	49	49	49	49	49	49				
7) East Concrete Batching Plant (Operation)	109	377	-60	3	52	52	52	52	52	52	52	52	52	52	52	52	52				
<b>8) Barqing Point (BP)</b>																					
BP4	110	357	-59	3	54	54	54	54	54	54	54	54	54	54	54	54	54				
BP5	110	387	-60	3	53	53	53	53	53	53	53	53	53	53	53	53	53				
BP6	110	576	-63	3	50	50	50	50	50	50	50	50	50	50	50	50	50				
BP7	110	691	-65	3	48	48	48	48	48	48	48	48	48	48	48	48	48				
9) West Pier (Optional)	112	936	-67	3	48	48	48	48	48	48	48	48	48	48	48	48	48				
10) South Pier (Optional)	112	396	-60	3	55	55	55	55	55	55	55	55	55	55	55	55	55				
11) Viewing Platform (Optional)	108	297	-57	3	54	54	54	54	54	54	54	54	54	54	54	54	54				
<b>Predicted Noise Level of this Project, dB (A)</b>						71	71	71	71	71	71	71	71	71	71	71	71				
<b>Predicted Noise Level of Express Rail Link, dB(A)<sup>1</sup></b>						69	69	69	64	64	63	63	69	69	69	69	69				
<b>Predicted Noise Level of Road Works at West Kowloon, dB(A)<sup>2</sup></b>						69	67	67	67	67	67	67									
<b>Overall Cumulative Noise Level, dB(A)</b>						75	74	74	73	73	73	71	74	72	72	72	72	71	75	72	72

Note: Bold figure in shaded box denotes exceedance of relevant construction noise criteria

- Predicted Noise Levels are referred to NSR WK14 in Appendix 5.8 of approved EIA of Express Rail Link (AEIAR-143/2009). Delaying of 6 months of WKT construction programme in VEP have been included in predicted noise level.
- Predicted Noise Levels are referred to NSR Arch2b in Appendix 3.13 of approved EIA of Road Works at West Kowloon (AEIAR-141/2009) for conservative approach.
- Since the NSR is located out of the 300m assessment area of the construction works of "Proposed Road Improvement Works in West Kowloon Reclamation" project, the cumulative noise impact is predicted to be low and has insignificant contribution to the NSR, therefore, cumulative noise impact is not taken into account at this NSR.
- Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.
- Phase 1 Concrete Batching Plant in Environmental Review for Proposed West Kowloon Terminus Concrete Batching Facility will be handed over to WKCD starting from the year of 2014. Since the operation of concreting batching plants before 2014 and the operation and demolition of phase 2 concreting batching plant have already been included in the noise impact assessment of the XRL project, separate noise impact assessment will only be calculated after handing over the phase 1 concrete batching plant to WKCD starting from the year of 2014.

**Mitigated Construction Noise Impact**

**NSR: WOB (Wai On Building)**

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB (A)	Facade Correction,	Calculated SPL, dB(A)	2014												2015			
						4	5	6	7	8	9	10	11	12	1	2	3	4			
<b>1) Zone 1</b>																					
Activity 3 - Excavation	103	100	-48	3	58	58	58	58	58												
Activity 4 - Basement and Underpass	108	100	-48	3	63					63	63	63	63								
Activity 5 - Superstructure	108	100	-48	3	63									63	63	63	63				
<b>2) Zone 2</b>																					
Activity 1 - D Walling																					
Zone 2.1	97	645	-64	3	36	36	36	36	36	36											
Zone 2.2	97	485	-62	3	38	38	38	38	38	38											
Zone 2.3	104	330	-58	3	48	48	48	48	48	48											
Zone 2.4	104	180	-53	3	54	54	54	54	54	54											
Zone 2.5	104	225	-55	3	52	52	52	52	52	52											
Zone 2.6	104	400	-60	3	47	47	47	47	47	47											
Zone 2.7	97	550	-63	3	37	37	37	37	37	37											
Zone 2.8	97	745	-65	3	34	34	34	34	34	34											
Activity 2 - Bored Piling																					
Zone 2.1	108	645	-64	3	47	47	47	47	47	47	47	47	47								
Zone 2.2	108	485	-62	3	49	49	49	49	49	49	49	49	49								
Zone 2.3	108	330	-58	3	52	52	52	52	52	52	52	52	52								
Zone 2.4	108	180	-53	3	58	58	58	58	58	58	58	58	58								
Zone 2.5	108	225	-55	3	56	56	56	56	56	56	56	56	56								
Zone 2.6	108	400	-60	3	51	51	51	51	51	51	51	51	51								
Zone 2.7	108	550	-63	3	48	48	48	48	48	48	48	48	48								
Zone 2.8	108	745	-65	3	45	45	45	45	45	45	45	45	45								
Activity 3 - Excavation																					
Zone 2.1	99	695	-65	3	37						37	37	37	37	37	37	37				
Zone 2.2	99	525	-62	3	40						40	40	40	40	40	40	40				
Zone 2.3	100	370	-59	3	44						44	44	44	44	44	44	44				
Zone 2.4	100	225	-55	3	48						48	48	48	48	48	48	48				
Zone 2.5	100	260	-56	3	47						47	47	47	47	47	47	47				
Zone 2.6	100	405	-60	3	43						43	43	43	43	43	43	43				
Zone 2.7	99	570	-63	3	39						39	39	39	39	39	39	39				
Zone 2.8	99	750	-66	3	36						36	36	36	36	36	36	36				
Activity 4 - Basement and Underpass																					
Zone 2.1	105	695	-65	3	43									43	43	43	43				
Zone 2.2	105	525	-62	3	46									46	46	46	46				
Zone 2.3	106	370	-59	3	49									49	49	49	49				
Zone 2.4	106	225	-55	3	53									53	53	53	53				
Zone 2.5	106	260	-56	3	52									52	52	52	52				
Zone 2.6	106	405	-60	3	48									48	48	48	48				
Zone 2.7	106	570	-63	3	45									45	45	45	45				
Zone 2.8	105	750	-66	3	43									43	43	43	43				
<b>3) Zone 3</b>																					
Activity 1 - D Walling																					
Activity 2 - Bored Piling	115	905	-67	3	50						50	50	50	50	50	50	50				
<b>4) Park Construction - Zone A</b>																					
5) ICC Footbridge	106	840	-66	3	42	42	42	42	42	42	42	42	42	42	42	42	42				
6) Flyover	106	922	-67	3	41						41	41	41	41	41	41	41				
7) East Concrete Batching Plant (Operation)	109	215	-55	3	57	57	57	57	57	57	57	57	57	57	57	57	57				
<b>8) Barqing Point (BP)</b>																					
BP4	110	805	-66	3	47	47	47	47	47	47	47	47	47	47	47	47	47				
BP5	110	850	-67	3	46	46	46	46	46	46	46	46	46	46	46	46	46				
BP6	110	1060	-69	3	44	44	44	44	44	44	44	44	44	44	44	44	44				
BP7	110	1160	-69	3	43	43	43	43	43	43	43	43	43	43	43	43	43				
9) West Pier (Optional)	112	1475	-71	3	44	44	44	44	44	44	44	44	44	44	44	44	44				
10) South Pier (Optional)	112	845	-67	3	49	49	49	49	49	49	49	49	49	49	49	49	49				
11) Viewing Platform (Optional)	108	508	-62	3	49	49	49	49	49	49	49	49	49	49	49	49	49				
<b>Predicted Noise Level of this Project, dB (A)</b>						65	65	67	67	67	67	66	67	66	66	66	66				
<b>Predicted Noise Level of Express Rail Link, dB(A)<sup>1</sup></b>						58	58	58	58	58	53	53	53	53	49	49	49				
<b>Predicted Noise Level of Road Works at West Kowloon, dB(A)<sup>2</sup></b>						64	63	63	63	63	63										
<b>Predicted Noise Level of Road Improvement Works in West Kowloon Reclamation, dB(A)<sup>3</sup></b>						63	66	63	70	69	69	69	70	63	63	46	46				
<b>Overall Cumulative Noise Level, dB(A)</b>						69	70	70	73	72	72	71	72	68	68	66	66				
												2014		2015							
												Min	Max	Min	Max						
												65	67	66	66						
												2014		2015							
												Min	Max	Min	Max						
												68	73	66	68						

Note: Bold figure in shaded box denotes exceedance of relevant construction noise criteria

- Predicted Noise Levels are referred to NSR WKS in Appendix G of Environmental Review for Proposed West Kowloon Terminus Concrete Batching Facility.
- Predicted Noise Levels are referred to NSR WN in Appendix 3.13 of approved EIA of Road Works at West Kowloon (AEIAR-141/2009).
- Predicted Noise Levels are referred to NSR WOB in Appendix 2.4 of Preliminary Environmental Review Report - Scheme Q of Proposed Road Improvement Works in West Kowloon Reclamation for conservative approach. Delaying of 6 months of construction programme based on latest information have been included in predicted noise level.
- Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.
- Phase 1 Concrete Batching Plant in Environmental Review for Proposed West Kowloon Terminus Concrete Batching Facility will be handed over to WKCD starting from the year of 2014. Since the operation of concreting batching plants before 2014 and the operation and demolition of phase 2 concreting batching plant have already been included in the noise impact assessment of the XRL project, separate noise impact assessment will only be calculated after handing over the phase 1 concrete batching plant to WKCD starting from the year of 2014.

**Mitigated Construction Noise Impact**

**NSR: VT1 (The Victoria Towers - Tower 1)**

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB (A)	Facade Correction,	Calculated SPL, dB(A)	2014												2015			
						4	5	6	7	8	9	10	11	12	1	2	3	4			
<b>1) Zone 1</b>																					
Activity 3 - Excavation	103	74	-45	3	60	60	60	60	60												
Activity 4 - Basement and Underpass	108	74	-45	3	65			65	65	65	65										
Activity 5 - Superstructure	108	74	-45	3	66							66	66	66	66	66	66				
<b>2) Zone 2</b>																					
Activity 1 - D Walling																					
Zone 2.1	97	626	-64	3	36	36	36	36	36	36											
Zone 2.2	97	472	-61	3	38	38	38	38	38	38											
Zone 2.3	104	328	-58	3	48	48	48	48	48	48											
Zone 2.4	104	170	-53	3	54	54	54	54	54	54											
Zone 2.5	104	156	-52	3	55	55	55	55	55	55											
Zone 2.6	104	328	-58	3	48	48	48	48	48	48											
Zone 2.7	97	482	-62	3	38	38	38	38	38	38											
Zone 2.8	97	691	-65	3	35	35	35	35	35	35											
Activity 2 - Bored Piling																					
Zone 2.1	108	626	-64	3	47	47	47	47	47	47	47	47	47								
Zone 2.2	108	472	-61	3	49	49	49	49	49	49	49	49	49								
Zone 2.3	108	328	-58	3	52	52	52	52	52	52	52	52	52								
Zone 2.4	108	170	-53	3	58	58	58	58	58	58	58	58	58								
Zone 2.5	108	156	-52	3	59	59	59	59	59	59	59	59	59								
Zone 2.6	108	328	-58	3	52	52	52	52	52	52	52	52	52								
Zone 2.7	108	482	-62	3	49	49	49	49	49	49	49	49	49								
Zone 2.8	108	691	-65	3	46	46	46	46	46	46	46	46	46								
Activity 3 - Excavation																					
Zone 2.1	99	676	-65	3	37					37	37	37	37	37	37	37	37				
Zone 2.2	99	502	-62	3	40					40	40	40	40	40	40	40	40				
Zone 2.3	100	343	-59	3	45					45	45	45	45	45	45	45	45				
Zone 2.4	100	205	-54	3	49					49	49	49	49	49	49	49	49				
Zone 2.5	100	195	-54	3	50					50	50	50	50	50	50	50	50				
Zone 2.6	100	353	-59	3	44					44	44	44	44	44	44	44	44				
Zone 2.7	99	517	-62	3	40					40	40	40	40	40	40	40	40				
Zone 2.8	99	716	-65	3	37					37	37	37	37	37	37	37	37				
Activity 4 - Basement and Underpass																					
Zone 2.1	105	676	-65	3	44							44	44	44	44	44	44				
Zone 2.2	105	502	-62	3	46							46	46	46	46	46	46				
Zone 2.3	106	343	-59	3	50							50	50	50	50	50	50				
Zone 2.4	106	205	-54	3	54							54	54	54	54	54	54				
Zone 2.5	106	195	-54	3	55							55	55	55	55	55	55				
Zone 2.6	106	353	-59	3	50							50	50	50	50	50	50				
Zone 2.7	106	517	-62	3	46							46	46	46	46	46	46				
Zone 2.8	105	716	-65	3	43							43	43	43	43	43	43				
<b>3) Zone 3</b>																					
Activity 1 - D Walling																					
Activity 2 - Bored Piling	115	886	-67	3	51	43	43	43	43	43	43	51	51	51	51	51	51				
<b>4) Park Construction - Zone A</b>																					
Activity 1 - D Walling	109	1042	-68	3	44	44	44	44	44	44	44	44	44	44	44	44	44				
<b>5) ICC Footbridge</b>																					
Activity 1 - D Walling	106	827	-66	3	42	42	42	42	42	42	42	42	42	42	42	42	42				
<b>6) Flyover</b>																					
Activity 1 - D Walling	106	914	-67	3	41					41	41	41	41	41	41	41	41				
<b>7) East Concrete Batching Plant (Operation)</b>																					
Activity 1 - D Walling	109	158	-52	3	60	60	60	60	60	60	60	60	60	60	60	60	60				
<b>8) Barqing Point (BP)</b>																					
BP4	110	751	-66	3	47	47	47	47	47	47	47	47	47	47	47	47	47				
BP5	110	799	-66	3	47	47	47	47	47	47	47	47	47	47	47	47	47				
BP6	110	1001	-68	3	45	45	45	45	45	45	45	45	45	45	45	45	45				
BP7	110	1093	-69	3	44	44	44	44	44	44	44	44	44	44	44	44	44				
<b>9) West Pier (Optional)</b>																					
Activity 1 - D Walling	112	1451	-71	3	44	44	44	44	44	44	44	44	44	44	44	44	44				
<b>10) South Pier (Optional)</b>																					
Activity 1 - D Walling	112	786	-66	3	50	50	50	50	50	50	50	50	50	50	50	50	50				
<b>11) Viewing Platform (Optional)</b>																					
Activity 1 - D Walling	108	422	-61	3	51	51	51	51	51	51	51	51	51	51	51	51	51				
<b>Predicted Noise Level of this Project, dB (A)</b>																					
<b>Predicted Noise Level of Express Rail Link, dB(A)<sup>1</sup></b>																					
<b>Predicted Noise Level of Road Works at West Kowloon, dB(A)<sup>2</sup></b>																					
<b>Predicted Noise Level of Road Improvement Works in West Kowloon Reclamation, dB(A)<sup>3</sup></b>																					
<b>Overall Cumulative Noise Level, dB(A)</b>																					
														2014	2015						
														Min	Max	Min	Max				
														67	69	68	68				
														2014	2015						
														Min	Max	Min	Max				
														69	72	68	69				

Note: Bold figure in shaded box denotes exceedance of relevant construction noise criteria

- Predicted Noise Levels are referred to NSR WK6 in Appendix G of Environmental Review for Proposed West Kowloon Terminus Concrete Batching Facility.
- Predicted Noise Levels are referred to NSR VT2 in Appendix 3.13 of approved EIA of Road Works at West Kowloon (AEIAR-141/2009) for conservative approach.
- Predicted Noise Levels are referred to NSR VT1 in Appendix 2.4 of Preliminary Environmental Review Report - Scheme Q of Proposed Road Improvement Works in West Kowloon Reclamation for conservative approach. Delaying of 6 months of construction programme based on latest information have been included in predicted noise level.
- Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.
- Phase 1 Concrete Batching Plant in Environmental Review for Proposed West Kowloon Terminus Concrete Batching Facility will be handed over to WKCD starting from the year of 2014. Since the operation of concreting batching plants before 2014 and the operation and demolition of phase 2 concreting batching plant have already been included in the noise impact assessment of the XRL project, separate noise impact assessment will only be calculated after handing over the phase 1 concrete batching plant to WKCD starting from the year of 2014.



**Mitigated Construction Noise Impact**

**NSR: VT2 (The Victoria Towers - Tower 2)**

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB (A)	Facade Correction,	Calculated SPL, dB(A)	2014												2015																																																																																																																																																																																																																																																
						4	5	6	7	8	9	10	11	12	1	2	3	4																																																																																																																																																																																																																																																
<b>1) Zone 1</b>																																																																																																																																																																																																																																																																		
Activity 3 - Excavation	103	78	-46	3	60	60	60	60	60																																																																																																																																																																																																																																																									
Activity 4 - Basement and Underpass	108	78	-46	3	65			65	65	65	65																																																																																																																																																																																																																																																							
Activity 5 - Superstructure	108	78	-46	3	65							65	65	65	65	65	65																																																																																																																																																																																																																																																	
<b>2) Zone 2</b>																																																																																																																																																																																																																																																																		
Activity 1 - D Walling																																																																																																																																																																																																																																																																		
Zone 2.1	97	646	-64	3	36	36	36	36	36	36																																																																																																																																																																																																																																																								
Zone 2.2	97	492	-62	3	38	38	38	38	38	38																																																																																																																																																																																																																																																								
Zone 2.3	104	338	-59	3	48	48	48	48	48	48																																																																																																																																																																																																																																																								
Zone 2.4	104	180	-53	3	54	54	54	54	54	54																																																																																																																																																																																																																																																								
Zone 2.5	104	190	-54	3	53	53	53	53	53	53																																																																																																																																																																																																																																																								
Zone 2.6	104	363	-59	3	47	47	47	47	47	47																																																																																																																																																																																																																																																								
Zone 2.7	97	522	-62	3	37	37	37	37	37	37																																																																																																																																																																																																																																																								
Zone 2.8	97	721	-65	3	35	35	35	35	35	35																																																																																																																																																																																																																																																								
Activity 2 - Bored Piling																																																																																																																																																																																																																																																																		
Zone 2.1	108	646	-64	3	47	47	47	47	47	47	47	47	47																																																																																																																																																																																																																																																					
Zone 2.2	108	492	-62	3	49	49	49	49	49	49	49	49	49																																																																																																																																																																																																																																																					
Zone 2.3	108	338	-59	3	52	52	52	52	52	52	52	52	52																																																																																																																																																																																																																																																					
Zone 2.4	108	180	-53	3	58	58	58	58	58	58	58	58	58																																																																																																																																																																																																																																																					
Zone 2.5	108	190	-54	3	57	57	57	57	57	57	57	57	57																																																																																																																																																																																																																																																					
Zone 2.6	108	363	-59	3	52	52	52	52	52	52	52	52	52																																																																																																																																																																																																																																																					
Zone 2.7	108	522	-62	3	48	48	48	48	48	48	48	48	48																																																																																																																																																																																																																																																					
Zone 2.8	108	721	-65	3	46	46	46	46	46	46	46	46	46																																																																																																																																																																																																																																																					
Activity 3 - Excavation																																																																																																																																																																																																																																																																		
Zone 2.1	99	701	-65	3	37						37	37	37	37	37	37	37																																																																																																																																																																																																																																																	
Zone 2.2	99	527	-62	3	39						39	39	39	39	39	39	39																																																																																																																																																																																																																																																	
Zone 2.3	100	367	-59	3	44						44	44	44	44	44	44	44																																																																																																																																																																																																																																																	
Zone 2.4	100	214	-55	3	49						49	49	49	49	49	49	49																																																																																																																																																																																																																																																	
Zone 2.5	100	214	-55	3	49						49	49	49	49	49	49	49																																																																																																																																																																																																																																																	
Zone 2.6	100	377	-60	3	44						44	44	44	44	44	44	44																																																																																																																																																																																																																																																	
Zone 2.7	99	547	-63	3	39						39	39	39	39	39	39	39																																																																																																																																																																																																																																																	
Zone 2.8	99	736	-65	3	37						37	37	37	37	37	37	37																																																																																																																																																																																																																																																	
Activity 4 - Basement and Underpass																																																																																																																																																																																																																																																																		
Zone 2.1	105	701	-65	3	43							43	43	43	43	43	43																																																																																																																																																																																																																																																	
Zone 2.2	105	527	-62	3	46							46	46	46	46	46	46																																																																																																																																																																																																																																																	
Zone 2.3	106	367	-59	3	49							49	49	49	49	49	49																																																																																																																																																																																																																																																	
Zone 2.4	106	214	-55	3	54							54	54	54	54	54	54																																																																																																																																																																																																																																																	
Zone 2.5	106	214	-55	3	54							54	54	54	54	54	54																																																																																																																																																																																																																																																	
Zone 2.6	106	377	-60	3	49							49	49	49	49	49	49																																																																																																																																																																																																																																																	
Zone 2.7	106	547	-63	3	46							46	46	46	46	46	46																																																																																																																																																																																																																																																	
Zone 2.8	105	736	-65	3	43							43	43	43	43	43	43																																																																																																																																																																																																																																																	
<b>3) Zone 3</b>																																																																																																																																																																																																																																																																		
Activity 1 - D Walling																																																																																																																																																																																																																																																																		
Activity 2 - Bored Piling	115	901	-67	3	51							51	51	51	51	51	51																																																																																																																																																																																																																																																	
<b>4) Park Construction - Zone A</b>																																																																																																																																																																																																																																																																		
5) ICC Footbridge	106	846	-67	3	42	42	42	42	42	42	42	42	42	42	42	42	42																																																																																																																																																																																																																																																	
6) Flyover	106	930	-67	3	41							41	41	41	41	41	41																																																																																																																																																																																																																																																	
7) East Concrete Batching Plant (Operation)	109	183	-53	3	58	58	58	58	58	58	58	58	58	58	58	58	58																																																																																																																																																																																																																																																	
<b>8) Barqing Point (BP)</b>																																																																																																																																																																																																																																																																		
BP4	110	781	-66	3	47	47	47	47	47	47	47	47	47	47	47	47	47																																																																																																																																																																																																																																																	
BP5	110	831	-66	3	46	46	46	46	46	46	46	46	46	46	46	46	46																																																																																																																																																																																																																																																	
BP6	110	1036	-68	3	44	44	44	44	44	44	44	44	44	44	44	44	44																																																																																																																																																																																																																																																	
BP7	110	1131	-69	3	44	44	44	44	44	44	44	44	44	44	44	44	44																																																																																																																																																																																																																																																	
9) West Pier (Optional)	112	1471	-71	3	44	44	44	44	44	44	44	44	44	44	44	44	44																																																																																																																																																																																																																																																	
10) South Pier (Optional)	112	816	-66	3	49	49	49	49	49	49	49	49	49	49	49	49	49																																																																																																																																																																																																																																																	
11) Viewing Platform (Optional)	108	462	-61	3	50	50	50	50	50	50	50	50	50	50	50	50	50																																																																																																																																																																																																																																																	
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td colspan="16"></td> <td>2014</td><td>2015</td> </tr> <tr> <td colspan="16"></td> <td>Min</td><td>Max</td><td>Min</td><td>Max</td> </tr> <tr> <td colspan="16" style="text-align: center;">Predicted Noise Level of this Project, dB (A)</td> <td>66</td><td>66</td><td>69</td><td>69</td><td>68</td><td>68</td><td>68</td><td>69</td><td>68</td><td>68</td><td>68</td><td>68</td><td>68</td><td>68</td><td>68</td><td>68</td><td>68</td> </tr> <tr> <td colspan="16" style="text-align: center;">Predicted Noise Level of Express Rail Link, dB(A)<sup>1</sup></td> <td>60</td><td>60</td><td>60</td><td>60</td><td>60</td><td>60</td><td>58</td><td>58</td><td>59</td><td>59</td><td>59</td><td>59</td><td>56</td><td>56</td><td>56</td><td>56</td><td>56</td> </tr> <tr> <td colspan="16" style="text-align: center;">Predicted Noise Level of Road Works at West Kowloon, dB(A)<sup>2</sup></td> <td>60</td><td>59</td><td>59</td><td>59</td><td>59</td><td>59</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td colspan="16" style="text-align: center;">Predicted Noise Level of Road Improvement Works in West Kowloon Reclamation, dB(A)<sup>3</sup></td> <td>58</td><td>61</td><td>58</td><td>65</td><td>64</td><td>64</td><td>64</td><td>65</td><td>58</td><td>58</td><td>44</td><td>44</td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td colspan="16" style="text-align: center;">Overall Cumulative Noise Level, dB(A)</td> <td>68</td><td>69</td><td>70</td><td>71</td><td>70</td><td>70</td><td>70</td><td>71</td><td>69</td><td>68</td><td>68</td><td>68</td><td>68</td><td>68</td><td>68</td><td>68</td><td>68</td> </tr> <tr> <td colspan="16"></td> <td>2014</td><td>2015</td> </tr> <tr> <td colspan="16"></td> <td>Min</td><td>Max</td><td>Min</td><td>Max</td> </tr> </table>																																		2014	2015																	Min	Max	Min	Max	Predicted Noise Level of this Project, dB (A)																66	66	69	69	68	68	68	69	68	68	68	68	68	68	68	68	68	Predicted Noise Level of Express Rail Link, dB(A) <sup>1</sup>																60	60	60	60	60	60	58	58	59	59	59	59	56	56	56	56	56	Predicted Noise Level of Road Works at West Kowloon, dB(A) <sup>2</sup>																60	59	59	59	59	59												Predicted Noise Level of Road Improvement Works in West Kowloon Reclamation, dB(A) <sup>3</sup>																58	61	58	65	64	64	64	65	58	58	44	44						Overall Cumulative Noise Level, dB(A)																68	69	70	71	70	70	70	71	69	68	68	68	68	68	68	68	68																	2014	2015																	Min	Max	Min	Max
																2014	2015																																																																																																																																																																																																																																																	
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Predicted Noise Level of this Project, dB (A)																66	66	69	69	68	68	68	69	68	68	68	68	68	68	68	68	68																																																																																																																																																																																																																																		
Predicted Noise Level of Express Rail Link, dB(A) <sup>1</sup>																60	60	60	60	60	60	58	58	59	59	59	59	56	56	56	56	56																																																																																																																																																																																																																																		
Predicted Noise Level of Road Works at West Kowloon, dB(A) <sup>2</sup>																60	59	59	59	59	59																																																																																																																																																																																																																																													
Predicted Noise Level of Road Improvement Works in West Kowloon Reclamation, dB(A) <sup>3</sup>																58	61	58	65	64	64	64	65	58	58	44	44																																																																																																																																																																																																																																							
Overall Cumulative Noise Level, dB(A)																68	69	70	71	70	70	70	71	69	68	68	68	68	68	68	68	68																																																																																																																																																																																																																																		
																2014	2015																																																																																																																																																																																																																																																	
																Min	Max	Min	Max																																																																																																																																																																																																																																															

Note: Bold figure in shaded box denotes exceedance of relevant construction noise criteria

- Predicted Noise Levels are referred to NSR WK6 in Appendix G of Environmental Review for Proposed West Kowloon Terminus Concrete Batching Facility.
- Predicted Noise Levels are referred to NSR VT2 in Appendix 3.13 of approved EIA of Road Works at West Kowloon (AEIAR-141/2009) for conservative approach.
- Predicted Noise Levels are referred to NSR VT2 in Appendix 2.4 of Preliminary Environmental Review Report - Scheme Q of Proposed Road Improvement Works in West Kowloon Reclamation for conservative approach. Delaying of 6 months of construction programme based on latest information have been included in predicted noise level.
- Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.
- Phase 1 Concrete Batching Plant in Environmental Review for Proposed West Kowloon Terminus Concrete Batching Facility will be handed over to WKCD starting from the year of 2014. Since the operation of concreting batching plants before 2014 and the operation and demolition of phase 2 concreting batching plant have already been included in the noise impact assessment of the XRL project, separate noise impact assessment will only be calculated after handing over the phase 1 concrete batching plant to WKCD starting from the year of 2014.

**Mitigated Construction Noise Impact**

**NSR: LCS (Lai Chack Middle School)**

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB (A)	Facade Correction,	Calculated SPL, dB(A)	2014												2015		
						4	5	6	7	8	9	10	11	12	1	2	3			
<b>1) Zone 1</b>																				
Activity 3 - Excavation	103	105	-48	3	57	57	57	57	57											
Activity 4 - Basement and Underpass	108	105	-48	3	62				62	62	62	62								
Activity 5 - Superstructure	108	105	-48	3	63								63	63	63	63	63			
<b>2) Zone 2</b>																				
Activity 1 - D Walling																				
Zone 2.1	97	640	-64	3	36	36	36	36	36	36										
Zone 2.2	97	480	-62	3	38	38	38	38	38	38										
Zone 2.3	104	340	-59	3	48	48	48	48	48	48										
Zone 2.4	104	160	-52	3	55	55	55	55	55	55										
Zone 2.5	104	150	-52	3	55	55	55	55	55	55										
Zone 2.6	104	315	-58	3	49	49	49	49	49	49										
Zone 2.7	97	480	-62	3	38	38	38	38	38	38										
Zone 2.8	97	690	-65	3	35	35	35	35	35	35										
Activity 2 - Bored Piling																				
Zone 2.1	108	640	-64	3	47	47	47	47	47	47	47	47								
Zone 2.2	108	480	-62	3	49	49	49	49	49	49	49	49								
Zone 2.3	108	340	-59	3	52	52	52	52	52	52	52	52								
Zone 2.4	108	160	-52	3	59	59	59	59	59	59	59	59								
Zone 2.5	108	150	-52	3	59	59	59	59	59	59	59	59								
Zone 2.6	108	315	-58	3	53	53	53	53	53	53	53	53								
Zone 2.7	108	480	-62	3	49	49	49	49	49	49	49	49								
Zone 2.8	108	690	-65	3	46	46	46	46	46	46	46	46								
Activity 3 - Excavation																				
Zone 2.1	99	685	-65	3	37						37	37	37	37	37	37	37			
Zone 2.2	99	505	-62	3	40						40	40	40	40	40	40	40			
Zone 2.3	100	355	-59	3	44						44	44	44	44	44	44	44			
Zone 2.4	100	205	-54	3	49						49	49	49	49	49	49	49			
Zone 2.5	100	195	-54	3	50						50	50	50	50	50	50	50			
Zone 2.6	100	350	-59	3	44						44	44	44	44	44	44	44			
Zone 2.7	99	515	-62	3	40						40	40	40	40	40	40	40			
Zone 2.8	99	720	-65	3	37						37	37	37	37	37	37	37			
Activity 4 - Basement and Underpass																				
Zone 2.1	105	685	-65	3	43								43	43	43	43	43			
Zone 2.2	105	505	-62	3	46								46	46	46	46	46			
Zone 2.3	106	355	-59	3	50								50	50	50	50	50			
Zone 2.4	106	205	-54	3	54								54	54	54	54	54			
Zone 2.5	106	195	-54	3	55								55	55	55	55	55			
Zone 2.6	106	350	-59	3	50								50	50	50	50	50			
Zone 2.7	106	515	-62	3	46								46	46	46	46	46			
Zone 2.8	105	720	-65	3	43								43	43	43	43	43			
<b>3) Zone 3</b>																				
Activity 1 - D Walling																				
Activity 2 - Bored Piling	115	900	-67	3	51								51	51	51	51	51			
<b>4) Park Construction - Zone A</b>																				
5) ICC Footbridge	106	843	-67	3	42	42	42	42	42	42	42	42	42	42	42	42	42			
6) Flyover	106	927	-67	3	41								41	41	41	41	41			
7) East Concrete Batching Plant (Operation)	109	160	-52	3	60	60	60	60	60	60	60	60	60	60	60	60	60			
<b>8) Barqing Point (BP)</b>																				
BP4	110	750	-66	3	47	47	47	47	47	47	47	47	47	47	47	47	47			
BP5	110	795	-66	3	47	47	47	47	47	47	47	47	47	47	47	47	47			
BP6	110	993	-68	3	45	45	45	45	45	45	45	45	45	45	45	45	45			
BP7	110	1083	-69	3	44	44	44	44	44	44	44	44	44	44	44	44	44			
<b>9) West Pier (Optional)</b>																				
10) South Pier (Optional)	112	1455	-71	3	44	44	44	44	44	44	44	44	44	44	44	44	44			
<b>10) South Pier (Optional)</b>																				
11) Viewing Platform (Optional)	108	398	-60	3	51	51	51	51	51	51	51	51	51	51	51	51	51			
<b>Predicted Noise Level of this Project, dB (A)</b>																				
<b>Predicted Noise Level of Express Rail Link, dB(A)<sup>1</sup></b>																				
<b>Predicted Noise Level of Road Works at West Kowloon, dB(A)<sup>2</sup></b>																				
<b>Predicted Noise Level of Road Improvement Works in West Kowloon Reclamation, dB(A)<sup>3</sup></b>																				
<b>Overall Cumulative Noise Level, dB(A)</b>																				
														2014		2015				
														Min	Max	Min	Max			
														67	68	67	67			
														2014		2015				
														Min	Max	Min	Max			
														68	72	67	68			

Note: Bold figure in shaded box denotes exceedance of relevant construction noise criteria

- Predicted Noise Levels are referred to NSR WK7 in Appendix G of Environmental Review for Proposed West Kowloon Terminus Concrete Batching Facility.
- Predicted Noise Levels are referred to NSR VT2 in Appendix 3.13 of approved EIA of Road Works at West Kowloon (AEIAR-141/2009) for conservative approach.
- Predicted Noise Levels are referred to NSR LCS in Appendix 2.4 of Preliminary Environmental Review Report - Scheme Q of Proposed Road Improvement Works in West Kowloon Reclamation for conservative approach. Delaying of 6 months of construction programme based on latest information have been included in predicted noise level.
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- Phase 1 Concrete Batching Plant in Environmental Review for Proposed West Kowloon Terminus Concrete Batching Facility will be handed over to WKCD starting from the year of 2014. Since the operation of concreting batching plants before 2014 and the operation and demolition of phase 2 concreting batching plant have already been included in the noise impact assessment of the XRL project, separate noise impact assessment will only be calculated after handing over the phase 1 concrete batching plant to WKCD starting from the year of 2014.

Mitigated Construction Noise Impact

NSR: CRGPS (Canton Road Government Primary School)

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB (A)	Facade Correction,	Calculated SPL, dB(A)	2014												2015																																																																																																																																									
						4	5	6	7	8	9	10	11	12	1	2	3	4																																																																																																																																									
<b>1) Zone 1</b>																																																																																																																																																											
Activity 3 - Excavation	103	120	-50	3	56	56	56	56	56																																																																																																																																																		
Activity 4 - Basement and Underpass	108	120	-50	3	61					61	61	61	61																																																																																																																																														
Activity 5 - Superstructure	108	120	-50	3	62									62	62	62	62																																																																																																																																										
<b>2) Zone 2</b>																																																																																																																																																											
Activity 1 - D Walling																																																																																																																																																											
Zone 2.1	97	645	-64	3	36	36	36	36	36	36																																																																																																																																																	
Zone 2.2	97	495	-62	3	38	38	38	38	38	38																																																																																																																																																	
Zone 2.3	104	350	-59	3	48	48	48	48	48	48																																																																																																																																																	
Zone 2.4	104	175	-53	3	54	54	54	54	54	54																																																																																																																																																	
Zone 2.5	104	150	-52	3	55	55	55	55	55	55																																																																																																																																																	
Zone 2.6	104	315	-58	3	49	49	49	49	49	49																																																																																																																																																	
Zone 2.7	97	475	-62	3	38	38	38	38	38	38																																																																																																																																																	
Zone 2.8	97	685	-65	3	35	35	35	35	35	35																																																																																																																																																	
Activity 2 - Bored Piling																																																																																																																																																											
Zone 2.1	108	645	-64	3	47	47	47	47	47	47	47	47	47																																																																																																																																														
Zone 2.2	108	495	-62	3	49	49	49	49	49	49	49	49	49																																																																																																																																														
Zone 2.3	108	350	-59	3	52	52	52	52	52	52	52	52	52																																																																																																																																														
Zone 2.4	108	175	-53	3	58	58	58	58	58	58	58	58	58																																																																																																																																														
Zone 2.5	108	150	-52	3	59	59	59	59	59	59	59	59	59																																																																																																																																														
Zone 2.6	108	315	-58	3	53	53	53	53	53	53	53	53	53																																																																																																																																														
Zone 2.7	108	475	-62	3	49	49	49	49	49	49	49	49	49																																																																																																																																														
Zone 2.8	108	685	-65	3	46	46	46	46	46	46	46	46	46																																																																																																																																														
Activity 3 - Excavation																																																																																																																																																											
Zone 2.1	99	680	-65	3	37						37	37	37	37	37	37	37																																																																																																																																										
Zone 2.2	99	520	-62	3	40						40	40	40	40	40	40	40																																																																																																																																										
Zone 2.3	100	360	-59	3	44						44	44	44	44	44	44	44																																																																																																																																										
Zone 2.4	100	220	-55	3	48						48	48	48	48	48	48	48																																																																																																																																										
Zone 2.5	100	195	-54	3	50						50	50	50	50	50	50	50																																																																																																																																										
Zone 2.6	100	355	-59	3	44						44	44	44	44	44	44	44																																																																																																																																										
Zone 2.7	99	520	-62	3	40						40	40	40	40	40	40	40																																																																																																																																										
Zone 2.8	99	720	-65	3	37						37	37	37	37	37	37	37																																																																																																																																										
Activity 4 - Basement and Underpass																																																																																																																																																											
Zone 2.1	105	680	-65	3	44									44	44	44	44																																																																																																																																										
Zone 2.2	105	520	-62	3	46									46	46	46	46																																																																																																																																										
Zone 2.3	106	360	-59	3	49									49	49	49	49																																																																																																																																										
Zone 2.4	106	220	-55	3	54									54	54	54	54																																																																																																																																										
Zone 2.5	106	195	-54	3	55									55	55	55	55																																																																																																																																										
Zone 2.6	106	355	-59	3	50									50	50	50	50																																																																																																																																										
Zone 2.7	106	520	-62	3	46									46	46	46	46																																																																																																																																										
Zone 2.8	105	720	-65	3	43									43	43	43	43																																																																																																																																										
<b>3) Zone 3</b>																																																																																																																																																											
Activity 1 - D Walling																																																																																																																																																											
Activity 2 - Bored Piling	115	905	-67	3	50									50	50	50	50																																																																																																																																										
<b>4) Park Construction - Zone A</b>																																																																																																																																																											
5) ICC Footbridge	106	847	-67	3	42	42	42	42	42	42	42	42	42	42	42	42	42																																																																																																																																										
6) Flyover	106	933	-67	3	41						41	41	41	41	41	41	41																																																																																																																																										
7) East Concrete Batching Plant (Operation)	109	170	-53	3	59	59	59	59	59	59	59	59	59	59	59	59	59																																																																																																																																										
<b>8) Barqing Point (BP)</b>																																																																																																																																																											
BP4	110	745	-65	3	47	47	47	47	47	47	47	47	47	47	47	47	47																																																																																																																																										
BP5	110	795	-66	3	47	47	47	47	47	47	47	47	47	47	47	47	47																																																																																																																																										
BP6	110	993	-68	3	45	45	45	45	45	45	45	45	45	45	45	45	45																																																																																																																																										
BP7	110	1080	-69	3	44	44	44	44	44	44	44	44	44	44	44	44	44																																																																																																																																										
9) West Pier (Optional)	112	1455	-71	3	44	44	44	44	44	44	44	44	44	44	44	44	44																																																																																																																																										
10) South Pier (Optional)	112	775	-66	3	50	50	50	50	50	50	50	50	50	50	50	50	50																																																																																																																																										
11) Viewing Platform (Optional)	108	400	-60	3	51	51	51	51	51	51	51	51	51	51	51	51	51																																																																																																																																										
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td colspan="16"></td> <td>2014</td><td>2015</td> </tr> <tr> <td colspan="16"></td> <td>Min</td><td>Max</td><td>Min</td><td>Max</td> </tr> <tr> <td colspan="16">Predicted Noise Level of this Project, dB (A)</td> <td>66</td><td>66</td><td>68</td><td>68</td> </tr> <tr> <td colspan="16">Predicted Noise Level of Express Rail Link, dB(A)<sup>1</sup></td> <td>60</td><td>60</td><td>60</td><td>60</td> </tr> <tr> <td colspan="16">Predicted Noise Level of Road Works at West Kowloon, dB(A)<sup>2</sup></td> <td>60</td><td>59</td><td>59</td><td>59</td> </tr> <tr> <td colspan="16">Predicted Noise Level of Road Improvement Works in West Kowloon Reclamation, dB(A)<sup>3</sup></td> <td>60</td><td>63</td><td>60</td><td>66</td> </tr> <tr> <td colspan="16">Overall Cumulative Noise Level, dB(A)</td> <td>69</td><td>69</td><td>69</td><td>71</td> </tr> </table>																																		2014	2015																	Min	Max	Min	Max	Predicted Noise Level of this Project, dB (A)																66	66	68	68	Predicted Noise Level of Express Rail Link, dB(A) <sup>1</sup>																60	60	60	60	Predicted Noise Level of Road Works at West Kowloon, dB(A) <sup>2</sup>																60	59	59	59	Predicted Noise Level of Road Improvement Works in West Kowloon Reclamation, dB(A) <sup>3</sup>																60	63	60	66	Overall Cumulative Noise Level, dB(A)																69	69	69	71
																2014	2015																																																																																																																																										
																Min	Max	Min	Max																																																																																																																																								
Predicted Noise Level of this Project, dB (A)																66	66	68	68																																																																																																																																								
Predicted Noise Level of Express Rail Link, dB(A) <sup>1</sup>																60	60	60	60																																																																																																																																								
Predicted Noise Level of Road Works at West Kowloon, dB(A) <sup>2</sup>																60	59	59	59																																																																																																																																								
Predicted Noise Level of Road Improvement Works in West Kowloon Reclamation, dB(A) <sup>3</sup>																60	63	60	66																																																																																																																																								
Overall Cumulative Noise Level, dB(A)																69	69	69	71																																																																																																																																								

Note: Bold figure in shaded box denotes exceedance of relevant construction noise criteria

- Predicted Noise Levels are referred to NSR WK7 in Appendix G of Environmental Review for Proposed West Kowloon Terminus Concrete Batching Facility.
- Predicted Noise Levels are referred to NSR VT2 in Appendix 3.13 of approved EIA of Road Works at West Kowloon (AEIAR-141/2009) for conservative approach.
- Predicted Noise Levels are referred to NSR CGPS in Appendix 2.4 of Preliminary Environmental Review Report - Scheme Q of Proposed Road Improvement Works in West Kowloon Reclamation for conservative approach. Delaying of 6 months of construction programme based on latest information have been included in predicted noise level.
- Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.
- Phase 1 Concrete Batching Plant in Environmental Review for Proposed West Kowloon Terminus Concrete Batching Facility will be handed over to WKCD starting from the year of 2014. Since the operation of concreting batching plants before 2014 and the operation and demolition of phase 2 concreting batching plant have already been included in the noise impact assessment of the XRL project, separate noise impact assessment will only be calculated after handing over the phase 1 concrete batching plant to WKCD starting from the year of 2014.

**Mitigated Construction Noise Impact**

**NSR: FQ (Fire Services Department Staff Quarter)**

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB (A)	Facade Correction,	Calculated SPL, dB(A)	2014												2015			
						4	5	6	7	8	9	10	11	12	1	2	3	4			
<b>1) Zone 1</b>																					
Activity 3 - Excavation	103	82	-46	3	59	59	59	59	59												
Activity 4 - Basement and Underpass	108	82	-46	3	64			64	64	64	64										
Activity 5 - Superstructure	108	82	-46	3	65								65	65	65	65	65				
<b>2) Zone 2</b>																					
Activity 1 - D Walling																					
Zone 2.1	97	540	-63	3	37	37	37	37	37	37											
Zone 2.2	97	386	-60	3	40	40	40	40	40	40											
Zone 2.3	104	251	-56	3	51	51	51	51	51	51											
Zone 2.4	104	87	-47	3	60	60	60	60	60	60											
Zone 2.5	104	68	-45	3	62	62	62	62	62	62											
Zone 2.6	104	226	-55	3	52	52	52	52	52	52											
Zone 2.7	97	386	-60	3	40	40	40	40	40	40											
Zone 2.8	97	590	-63	3	36	36	36	36	36	36											
Activity 2 - Bored Piling																					
Zone 2.1	108	540	-63	3	48	48	48	48	48	48	48	48									
Zone 2.2	108	386	-60	3	51	51	51	51	51	51	51	51									
Zone 2.3	108	251	-56	3	55	55	55	55	55	55	55	55									
Zone 2.4	108	87	-47	3	64	64	64	64	64	64	64	64	64								
Zone 2.5	108	68	-45	3	66	66	66	66	66	66	66	66	66								
Zone 2.6	108	226	-55	3	56	56	56	56	56	56	56	56	56								
Zone 2.7	108	386	-60	3	51	51	51	51	51	51	51	51	51								
Zone 2.8	108	590	-63	3	47	47	47	47	47	47	47	47	47								
Activity 3 - Excavation																					
Zone 2.1	99	580	-63	3	39					39	39	39	39	39	39	39	39				
Zone 2.2	99	415	-60	3	42					42	42	42	42	42	42	42	42				
Zone 2.3	100	256	-56	3	47					47	47	47	47	47	47	47	47				
Zone 2.4	100	112	-49	3	54					54	54	54	54	54	54	54	54				
Zone 2.5	100	97	-48	3	56					56	56	56	56	56	56	56	56				
Zone 2.6	100	251	-56	3	47					47	47	47	47	47	47	47	47				
Zone 2.7	99	411	-60	3	42					42	42	42	42	42	42	42	42				
Zone 2.8	99	610	-64	3	38					38	38	38	38	38	38	38	38				
Activity 4 - Basement and Underpass																					
Zone 2.1	105	580	-63	3	45								45	45	45	45	45				
Zone 2.2	105	415	-60	3	48								48	48	48	48	48				
Zone 2.3	106	256	-56	3	52								52	52	52	52	52				
Zone 2.4	106	112	-49	3	60								60	60	60	60	60				
Zone 2.5	106	97	-48	3	61								61	61	61	61	61				
Zone 2.6	106	251	-56	3	53								53	53	53	53	53				
Zone 2.7	106	411	-60	3	48								48	48	48	48	48				
Zone 2.8	105	610	-64	3	44								44	44	44	44	44				
<b>3) Zone 3</b>																					
Activity 1 - D Walling																					
Activity 2 - Bored Piling	115	795	-66	3	52					52	52	52	52	52	52	52	52				
<b>4) Park Construction - Zone A</b>																					
5) ICC Footbridge	106	744	-65	3	43	43	43	43	43	43	43	43	43	43	43	43	43				
6) Flyover	106	828	-66	3	42					42	42	42	42	42	42	42	42				
7) East Concrete Batching Plant (Operation)	109	68	-45	3	67	67	67	67	67	67	67	67	67	67	67	67	67				
<b>8) Barqing Point (BP)</b>																					
BP4	110	650	-64	3	49	49	49	49	49	49	49	49	49	49	49	49	49				
BP5	110	695	-65	3	48	48	48	48	48	48	48	48	48	48	48	48	48				
BP6	110	900	-67	3	46	46	46	46	46	46	46	46	46	46	46	46	46				
BP7	110	985	-68	3	45	45	45	45	45	45	45	45	45	45	45	45	45				
<b>9) West Pier (Optional)</b>																					
10) South Pier (Optional)	112	1350	-71	3	45	45	45	45	45	45	45	45	45	45	45	45	45				
<b>10) South Pier (Optional)</b>																					
11) Viewing Platform (Optional)	108	291	-57	3	54	54	54	54	54	54	54	54	54	54	54	54	54				
<b>Predicted Noise Level of this Project, dB (A)</b>																					
<b>Predicted Noise Level of Express Rail Link, dB(A)<sup>1</sup></b>																					
<b>Predicted Noise Level of Road Works at West Kowloon, dB(A)<sup>2</sup></b>																					
<b>Predicted Noise Level of Road Improvement Works in West Kowloon Reclamation, dB(A)<sup>3</sup></b>																					
<b>Overall Cumulative Noise Level, dB(A)</b>																					
														2014	2015						
														Min	Max	Min	Max				
														71	73	71	71				
														2014	2015						
														Min	Max	Min	Max				
														72	75	71	72				

Note: Bold figure in shaded box denotes exceedance of relevant construction noise criteria

- Predicted Noise Levels are referred to NSR WK7a in Appendix G of Environmental Review for Proposed West Kowloon Terminus Concrete Batching Facility.
- Predicted Noise Levels are referred to NSR VT2 in Appendix 3.13 of approved EIA of Road Works at West Kowloon (AEIAR-141/2009) for conservative approach.
- Predicted Noise Levels are referred to NSR LCS in Appendix 2.4 of Preliminary Environmental Review Report - Scheme Q of Proposed Road Improvement Works in West Kowloon Reclamation for conservative approach. Delaying of 6 months of construction programme based on latest information have been included in predicted noise level.
- Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.
- Phase 1 Concrete Batching Plant in Environmental Review for Proposed West Kowloon Terminus Concrete Batching Facility will be handed over to WKCD starting from the year of 2014. Since the operation of concreting batching plants before 2014 and the operation and demolition of phase 2 concreting batching plant have already been included in the noise impact assessment of the XRL project, separate noise impact assessment will only be calculated after handing over the phase 1 concrete batching plant to WKCD starting from the year of 2014.

**Mitigated Construction Noise Impact**

**NSR: CUL (The Cullirian I)**

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB (A)	Facade Correction, dB(A)	Calculated SPL, dB(A)	2014												2015			
						4	5	6	7	8	9	10	11	12	1	2	3	4			
<b>1) Zone 1</b>																					
Activity 3 - Excavation	103	681	-65	3	41	41	41	41	41	41											
Activity 4 - Basement and Underpass	108	680	-65	3	46			46	46	46	46	46									
Activity 5 - Superstructure	108	681	-65	3	47										47	47	47	47	47		
<b>2) Zone 2</b>																					
Activity 1 - D Walling																					
Zone 2.1	97	351	-59	3	41	41	41	41	41	41											
Zone 2.2	97	361	-59	3	41	41	41	41	41	41											
Zone 2.3	104	435	-61	3	46	46	46	46	46	46											
Zone 2.4	104	540	-63	3	44	44	44	44	44	44											
Zone 2.5	104	650	-64	3	42	42	42	42	42	42											
Zone 2.6	104	580	-63	3	43	43	43	43	43	43											
Zone 2.7	97	535	-63	3	37	37	37	37	37	37											
Zone 2.8	97	530	-62	3	37	37	37	37	37	37											
Activity 2 - Bored Piling																					
Zone 2.1	108	351	-59	3	52	52	52	52	52	52	52	52	52	52							
Zone 2.2	108	361	-59	3	52	52	52	52	52	52	52	52	52	52							
Zone 2.3	108	435	-61	3	50	50	50	50	50	50	50	50	50	50							
Zone 2.4	108	540	-63	3	48	48	48	48	48	48	48	48	48	48							
Zone 2.5	108	650	-64	3	46	46	46	46	46	46	46	46	46	46							
Zone 2.6	108	580	-63	3	47	47	47	47	47	47	47	47	47	47							
Zone 2.7	108	535	-63	3	48	48	48	48	48	48	48	48	48	48							
Zone 2.8	108	530	-62	3	48	48	48	48	48	48	48	48	48	48							
Activity 3 - Excavation																					
Zone 2.1	99	828	-66	3	36						36	36	36	36	36	36	36	36	36		
Zone 2.2	99	659	-64	3	38						38	38	38	38	38	38	38	38	38		
Zone 2.3	100	498	-62	3	41						41	41	41	41	41	41	41	41	41		
Zone 2.4	100	348	-59	3	44						44	44	44	44	44	44	44	44	44		
Zone 2.5	100	344	-59	3	45						45	45	45	45	45	45	45	45	45		
Zone 2.6	100	500	-62	3	41						41	41	41	41	41	41	41	41	41		
Zone 2.7	99	672	-65	3	37						37	37	37	37	37	37	37	37	37		
Zone 2.8	99	865	-67	3	35						35	35	35	35	35	35	35	35	35		
Activity 4 - Basement and Underpass																					
Zone 2.1	105	828	-66	3	42										42	42	42	42	42		
Zone 2.2	105	659	-64	3	44										44	44	44	44	44		
Zone 2.3	106	498	-62	3	47										47	47	47	47	47		
Zone 2.4	106	348	-59	3	50										50	50	50	50	50		
Zone 2.5	106	344	-59	3	50										50	50	50	50	50		
Zone 2.6	106	500	-62	3	47										47	47	47	47	47		
Zone 2.7	106	672	-65	3	44										44	44	44	44	44		
Zone 2.8	105	865	-67	3	41										41	41	41	41	41		
<b>3) Zone 3</b>																					
Activity 1 - D Walling																					
Activity 2 - Bored Piling	115	347	-59	3	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59		
<b>4) Park Construction - Zone A</b>																					
5) ICC Footbridge	106	272	-57	3	52	52	52	52	52	52	52	52	52	52							
6) Flyover	106	317	-58	3	51						51	51	51	51	51	51	51	51	51		
7) East Concrete Batching Plant (Operation)	109	703	-65	3	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47		
<b>8) Barqing Point (BP)</b>																					
BP4	110	450	-61	3	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52		
BP5	110	460	-61	3	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52		
BP6	110	610	-64	3	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49		
BP7	110	725	-65	3	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48		
9) West Pier (Optional)	112	826	-66	3	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49		
10) South Pier (Optional)	112	476	-62	3	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54		
11) Viewing Platform (Optional)	108	561	-63	3	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48		
<b>Predicted Noise Level of this Project, dB (A)</b>						63	63	63	63	65	65	64	65	64	64	64	64	64	64		
<b>Predicted Noise Level of Express Rail Link, dB(A)<sup>1</sup></b>																					
<b>Predicted Noise Level of Road Works at West Kowloon, dB(A)<sup>2</sup></b>																					
<b>Predicted Noise Level of Road Improvement Works in West Kowloon Reclamation, dB(A)<sup>3</sup></b>						72	72	72	73	73	73	73	73	73	73	73	73	73	73	73	
<b>Overall Cumulative Noise Level, dB(A)</b>						73	73	73	73	74	74	74	74	73	73	73	73	73	73	73	

Note: Bold figure in shaded box denotes exceedance of relevant construction noise criteria

- Since the NSR is located 270m apart from the site boundary and no direct line of sight of the construction works of "Express Rail Link" project, the cumulative noise impact is predicted to be low and has insignificant contribution to the NSR, therefore, cumulative noise impact is not taken into account at this NSR.
- Since the NSR is located 270m apart from the site boundary and no direct line of sight of the construction works of "Road Works at West Kowloon" project, the cumulative noise impact is predicted to be low and has insignificant contribution to the NSR, therefore, cumulative noise impact is not taken into account at this NSR.
- Predicted Noise Levels are referred to NSR SRT in Appendix 2.4 of Preliminary Environmental Review Report - Scheme H, I & J of Proposed Road Improvement Works in West Kowloon Reclamation for conservative approach. Delaying of 6 months of construction programme based on latest information have been included in predicted noise level.
- Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.
- Phase 1 Concrete Batching Plant in Environmental Review for Proposed West Kowloon Terminus Concrete Batching Facility will be handed over to WKCD starting from the year of 2014. Since the operation of concreting batching plants before 2014 and the operation and demolition of phase 2 concreting batching plant have already been included in the noise impact assessment of the XRL project, separate noise impact assessment will only be calculated after handing over the phase 1 concrete batching plant to WKCD starting from the year of 2014.