

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 1 - D Walling</b>							
	Crane, mobile	EPD-01516	101	2	30%	-5	Movable Barrier	94
	Air compressor, air flow > 30m3/min	CNP 003	104	2	100%	-15	Enclosure	92
	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	2	60%	-15	Enclosure	71
	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	30%	-5	Movable Barrier	99
Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	1	100%	-15	Enclosure	80	
							Total SWL, dB (A)	102
<b>Activity 2 - Bored Piling</b>								
<b>Group 1</b>								
Crane, mobile	EPD-01516	101	1	30%	-5	Movable Barrier	91	
Excavator, wheeled/tracked	EPD-01230	99	2	30%	-5	Movable Barrier	92	
Piling Rig	[2]	112	1	60%	-10	Fabric	100	
Drill Rig	[1]	110	1	60%	-10	Fabric	98	
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	
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	30%	-5	Movable Barrier	99	
Welding Set	[2]	78	2	60%	-10	Movable Barrier	69	
							Total SWL, dB (A)	108
<b>Group 2</b>								
Excavator, wheeled/tracked	EPD-01230	99	2	30%	-5	Movable Barrier	92	
Piling Rig	[2]	112	1	60%	-10	Fabric	100	
Drill Rig	[1]	110	1	60%	-10	Fabric	98	
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	
Crane, mobile	EPD-01516	101	1	30%	-5	Movable Barrier	91	
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)	108
							Maximum SWL, dB (A) of Activity 2	108
2	<b>Zone 2</b>							
	<b>Activity 1 - D Walling</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
	Piling, diaphragm wall, hydraulic extractor	CNP 163	90	1	60%	-10	Fabric	78
	Excavator, wheeled/tracked	EPD-01230	99	2	60%	-5	Movable Barrier	95
	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
<b>Activity 2 - Bored Piling</b>								
Crane, mobile	EPD-01516	101	2	60%	-5	Movable Barrier	97	
Excavator, wheeled/tracked	EPD-01230	99	2	30%	-5	Movable Barrier	92	
Piling Rig	[2]	112	2	60%	-10	Fabric	103	
Drill Rig	[1]	110	2	60%	-10	Fabric	101	
Excavator, wheeled/tracked	EPD-01230	99	2	60%	-5	Movable Barrier	95	
Piling, large diameter bored, grab and chisel	CNP 164	115	2	60%	-10	Fabric	106	
Piling, large diameter bored, reverse circulation drill	CNP 166	100	2	60%	-10	Fabric	91	
Piling, large diameter bored, oscillator	CNP 165	115	2	60%	-10	Fabric	106	
Air compressor, air flow > 30m3/min	CNP 003	104	2	100%	-10	Enclosure	97	
Grout Mixer	[1]	90	2	60%	-10	Movable Barrier	81	
Grout Pump	[1]	105	2	60%	-10	Movable Barrier	96	
Bar bender and cutter (electric)	CNP 021	90	2	60%	-10	Movable Barrier	81	
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	1	30%	-5	Movable Barrier	95	
Concrete lorry mixer	CNP 044	109	1	60%	-5	Movable Barrier	102	
Welding Set	[2]	78	2	60%	-10	Movable Barrier	69	
							Total SWL, dB (A)	112
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)	107
4	<b>Park Construction - Zone A</b>							
	<b>Activity 1 - Park Construction [3]</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)	109

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 - Superstructure [3]</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
	Maximum SWL, dB (A)								109
5	<b>ICC Footbridge</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)								104	
<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)								106	
Maximum SWL, dB (A)								106	
6	<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)								109	
<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)								109	
Maximum SWL, dB (A)								109	
7	<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)								110	
8/9	<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)								110	
<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%	-15	Enclosure	98		
Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	2	100%	-15	Enclosure	90		
Crane, mobile	EPD-01516	101	1	60%	-5	Movable Barrier	94		
Tug boat	CNP 221	110	1	60%			108		
Total SWL, dB (A)								112	
<b>Group 3</b>									
Crane, mobile	EPD-01516	101	1	60%	-5	Movable Barrier	94		
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%	-15	Enclosure	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)								111	
Maximum SWL, dB (A)								112	
10	<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)								108	
<b>Group 2</b>									
Crane, mobile	EPD-01516	101	2	100%			104		
Total SWL, dB (A)								104	
Maximum SWL, dB (A)								108	

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] 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, dB(A)	Calculated SPL, dB(A)	2013					2014						
						8	9	10	11	12	1	2	3				
<b>1) Zone 1</b>																	
Activity 1 - D Walling	102	476	-62	3	43			43	43	43	43						
Activity 2 - Bored Piling	108	476	-62	3	49						49	49	49				
<b>2) Zone 2</b>																	
Activity 1 - D Walling																	
Zone 2.1	104	79	-46	3	61						61	61	61				
Zone 2.2	104	79	-46	3	61						61	61	61				
Zone 2.3	104	203	-54	3	53						53	53	53				
Zone 2.4	104	277	-57	3	51						51	51	51				
Activity 2 - Bored Piling																	
Zone 2.1	112	79	-46	3	69								69				
Zone 2.2	112	79	-46	3	69								69				
Zone 2.3	112	203	-54	3	60								60				
Zone 2.4	112	277	-57	3	58								58				
<b>3) Zone 3</b>																	
Activity 1 - D Walling	107	272	-57	3	54								54				
<b>4) Park Construction - Zone A</b>																	
	109	576	-63	3	49			49	49	49	49	49	49				
<b>5) ICC Footbridge</b>																	
	106	211	-54	3	54			54	54	54	54	54	54				
<b>6) East Concrete Batching Plant (Operation)</b>																	
	109	461	-61	3	50						50	50	50				
<b>7) Barging Point (BP)</b>																	
BP4	110	307	-58	3	55			55	55	55	55	55	55				
BP5	110	327	-58	3	54			54	54	54	54	54	54				
BP6	110	506	-62	3	51			51	51	51	51	51	51				
BP7	110	616	-64	3	49			49	49	49	49	49	49				
<b>8) West Pier (Optional)</b>																	
	112	846	-67	3	48			48	48	48	48	48	48				
<b>9) South Pier (Optional)</b>																	
	112	347	-59	3	56			56	56	56	56	56	56				
<b>10) Viewing Platform (Optional)</b>																	
	108	342	-59	3	52			52	52	52	52	52	52				
<b>Predicted Noise Level of this Project, dB (A)</b>								63	63	63	67	67	73	63	63	67	73
<b>Predicted Noise Level of Express Rail Link, dB(A)<sup>1</sup></b>								70	66	62	70	65	62				
<b>Predicted Noise Level of Road Works at West Kowloon, dB(A)<sup>2</sup></b>								70	70	70	70	70	70				
<b>Overall Cumulative Noise Level, dB(A)</b>								73	72	71	74	73	75	71	73	73	75
														<b>2013</b>	<b>2014</b>	<b>Min</b>	<b>Max</b>
														<b>Min</b>	<b>Max</b>	<b>Min</b>	<b>Max</b>

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

- 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.
- 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.
- 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: 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, dB(A)	Calculated SPL, dB(A)	2013					2014											
						8	9	10	11	12	1	2	3									
<b>1) Zone 1</b>																						
Activity 1 - D Walling	102	571	-63	3	42			42	42	42	42											
Activity 2 - Bored Piling	108	571	-63	3	48							48	48	48								
<b>2) Zone 2</b>																						
Activity 1 - D Walling																						
Zone 2.1	104	92	-47	3	60							60	60	60								
Zone 2.2	104	130	-50	3	57							57	57	57								
Zone 2.3	104	292	-57	3	50							50	50	50								
Zone 2.4	104	238	-56	3	52							52	52	52								
Activity 2 - Bored Piling																						
Zone 2.1	112	92	-47	3	67											67						
Zone 2.2	112	130	-50	3	64											64						
Zone 2.3	112	292	-57	3	57											57						
Zone 2.4	112	238	-56	3	59											59						
<b>3) Zone 3</b>																						
Activity 1 - D Walling	107	189	-54	3	57											57						
<b>4) Park Construction - Zone A</b>																						
5) ICC Footbridge	106	125	-50	3	59			59	59	59	59	59	59	59								
6) East Concrete Batching Plant (Operation)	109	554	-63	3	49										49	49						
<b>7) Barging Point (BP)</b>																						
BP4	110	302	-58	3	55			55	55	55	55	55	55	55								
BP5	110	312	-58	3	55			55	55	55	55	55	55	55								
BP6	110	461	-61	3	52			52	52	52	52	52	52	52								
BP7	110	576	-63	3	50			50	50	50	50	50	50	50								
<b>8) West Pier (Optional)</b>																						
9) South Pier (Optional)	112	327	-58	3	56			56	56	56	56	56	56	56								
10) Viewing Platform (Optional)	108	412	-60	3	51			51	51	51	51	51	51	51								
<b>Predicted Noise Level of this Project, dB (A)</b>								64	64	64	66	66	72	64	64	66	72					
<b>Predicted Noise Level of Express Rail Link, dB(A)<sup>1</sup></b>								65	65	63	65	63	63									
<b>Predicted Noise Level of Road Works at West Kowloon, dB(A)<sup>2</sup></b>								68	68	68	68	68	68									
<b>Overall Cumulative Noise Level, dB(A)</b>								71	71	70	71	71	74	70	71	71	74					
													<b>2013</b>		<b>2014</b>							
													<b>Min</b>	<b>Max</b>	<b>Min</b>	<b>Max</b>						

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, dB(A)	Calculated SPL, dB(A)	2013					2014						
						8	9	10	11	12	1	2	3				
<b>1) Zone 1</b>																	
Activity 1 - D Walling	102	392	-60	3	45			45	45	45	45						
Activity 2 - Bored Piling	108	392	-60	3	51							51	51	51			
<b>2) Zone 2</b>																	
Activity 1 - D Walling																	
Zone 2.1	104	130	-50	3	57							57	57	57			
Zone 2.2	104	72	-45	3	62							62	62	62			
Zone 2.3	104	169	-53	3	55							55	55	55			
Zone 2.4	104	302	-58	3	50							50	50	50			
Activity 2 - Bored Piling																	
Zone 2.1	112	130	-50	3	64											64	
Zone 2.2	112	72	-45	3	69											69	
Zone 2.3	112	169	-53	3	62											62	
Zone 2.4	112	302	-58	3	57											57	
<b>3) Zone 3</b>																	
Activity 1 - D Walling	107	362	-59	3	51											51	
<b>4) Park Construction - Zone A</b>																	
ICC Footbridge	106	299	-58	3	51			51	51	51	51	51	51	51			
<b>6) East Concrete Batching Plant (Operation)</b>																	
Barging Point (BP)	109	377	-60	3	52											52	
<b>7) Barging Point (BP)</b>																	
BP4	110	357	-59	3	54			54	54	54	54	54	54	54			
BP5	110	387	-60	3	53			53	53	53	53	53	53	53			
BP6	110	576	-63	3	50			50	50	50	50	50	50	50			
BP7	110	691	-65	3	48			48	48	48	48	48	48	48			
<b>8) West Pier (Optional)</b>																	
West Pier	112	936	-67	3	47			47	47	47	47	47	47	47			
<b>9) South Pier (Optional)</b>																	
South Pier	112	397	-60	3	55			55	55	55	55	55	55	55			
<b>10) Viewing Platform (Optional)</b>																	
Viewing Platform	108	297	-57	3	54			54	54	54	54	54	54	54			
<b>Predicted Noise Level of this Project, dB (A)</b>								61	61	61	66	66	73	61	61	66	73
<b>Predicted Noise Level of Express Rail Link, dB(A)<sup>1</sup></b>								74	73	69	74	71	69				
<b>Predicted Noise Level of Road Works at West Kowloon, dB(A)<sup>2</sup></b>								69	69	69	69	69	69				
<b>Overall Cumulative Noise Level, dB(A)</b>								75	75	72	76	74	75	72	75	74	76

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

- 1) 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.
- 2) 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.
- 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: WOB (Wai On Building)**

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)	2013					2014											
						8	9	10	11	12	1	2	3									
<b>1) Zone 1</b>																						
Activity 1 - D Walling	102	95	-48	3	57			57	57	57	57											
Activity 2 - Bored Piling	108	95	-48	3	63							63	63	63								
<b>2) Zone 2</b>																						
Activity 1 - D Walling																						
Zone 2.1	104	640	-64	3	43								43	43	43							
Zone 2.2	104	465	-61	3	46								46	46	46							
Zone 2.3	104	740	-65	3	42								42	42	42							
Zone 2.4	104	500	-62	3	45								45	45	45							
Activity 2 - Bored Piling																						
Zone 2.1	112	640	-64	3	50											50						
Zone 2.2	112	465	-61	3	53											53						
Zone 2.3	112	740	-65	3	49											49						
Zone 2.4	112	500	-62	3	53											53						
<b>3) Zone 3</b>																						
Activity 1 - D Walling	107	905	-67	3	43											43						
<b>4) Park Construction - Zone A</b>																						
Activity 1 - D Walling	109	1107	-69	3	43			43	43	43	43	43	43	43	43	43						
<b>5) ICC Footbridge</b>																						
Activity 1 - D Walling	106	840	-66	3	42			42	42	42	42	42	42	42	42	42						
<b>6) East Concrete Batching Plant (Operation)</b>																						
Activity 1 - D Walling	109	215	-55	3	57								57	57	57	57						
<b>7) Barging Point (BP)</b>																						
BP4	110	805	-66	3	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						
BP6	110	1060	-69	3	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						
<b>8) West Pier (Optional)</b>																						
Activity 1 - D Walling	112	1475	-71	3	43			43	43	43	43	43	43	43	43	43						
<b>9) South Pier (Optional)</b>																						
Activity 1 - D Walling	112	845	-67	3	48			48	48	48	48	48	48	48	48	48						
<b>10) Viewing Platform (Optional)</b>																						
Activity 1 - D Walling	108	508	-62	3	49			49	49	49	49	49	49	49	49	49						
<b>Predicted Noise Level of this Project, dB (A)</b>								60	60	60	66	65	66	60	60	65	66					
<b>Predicted Noise Level of Express Rail Link, dB(A)<sup>1</sup></b>								66	63	60	66	58	56									
<b>Predicted Noise Level of Road Works at West Kowloon, dB(A)<sup>2</sup></b>								64	64	64	64	64	64									
<b>Predicted Noise Level of Road Improvement Works in West Kowloon Reclamation, dB(A)<sup>3</sup></b>												46	63	Min	Max	Min	Max					
<b>Overall Cumulative Noise Level, dB(A)</b>								69	67	66	70	68	69	66	69	68	70					

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

- 1) Predicted Noise Levels are referred to NSR WK5 in Appendix G of Environmental Review for Proposed West Kowloon Terminus Concrete Batching Facility.
- 2) Predicted Noise Levels are referred to NSR WN in Appendix 3.13 of approved EIA of Road Works at West Kowloon (AEIAR-141/2009).
- 3) 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.
- 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: 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, dB(A)	Calculated SPL, dB(A)	2013					2014						
						8	9	10	11	12	1	2	3				
<b>1) Zone 1</b>																	
Activity 1 - D Walling	102	70	-45	3	60			60	60	60	60						
Activity 2 - Bored Piling	108	70	-45	3	66						66	66	66				
<b>2) Zone 2</b>																	
Activity 1 - D Walling																	
Zone 2.1	104	626	-64	3	43							43	43	43			
Zone 2.2	104	462	-61	3	46							46	46	46			
Zone 2.3	104	462	-61	3	46							46	46	46			
Zone 2.4	104	691	-65	3	43							43	43	43			
Activity 2 - Bored Piling																	
Zone 2.1	112	626	-64	3	51									51			
Zone 2.2	112	462	-61	3	53									53			
Zone 2.3	112	462	-61	3	53									53			
Zone 2.4	112	691	-65	3	50									50			
<b>3) Zone 3</b>																	
Activity 1 - D Walling	107	886	-67	3	43									43			
<b>4) Park Construction - Zone A</b>																	
	109	1042	-68	3	44			44	44	44	44	44	44	44			
<b>5) ICC Footbridge</b>																	
	106	827	-66	3	42			42	42	42	42	42	42	42			
<b>6) East Concrete Batching Plant (Operation)</b>																	
	109	158	-52	3	60							60	60	60			
<b>7) Barging Point (BP)</b>																	
BP4	110	751	-66	3	47			47	47	47	47	47	47	47			
BP5	110	799	-66	3	47			47	47	47	47	47	47	47			
BP6	110	1001	-68	3	45			45	45	45	45	45	45	45			
BP7	110	1093	-69	3	44			44	44	44	44	44	44	44			
<b>8) West Pier (Optional)</b>																	
	112	1451	-71	3	43			43	43	43	43	43	43	43			
<b>9) South Pier (Optional)</b>																	
	112	786	-66	3	49			49	49	49	49	49	49	49			
<b>10) Viewing Platform (Optional)</b>																	
	108	422	-61	3	51			51	51	51	51	51	51	51			
<b>Predicted Noise Level of this Project, dB (A)</b>								62	62	62	68	67	68	62	62	67	68
<b>Predicted Noise Level of Express Rail Link, dB(A)<sup>1</sup></b>								68	65	64	67	61	59				
<b>Predicted Noise Level of Road Works at West Kowloon, dB(A)<sup>2</sup></b>								60	60	60	60	60	60	2013	2014		
<b>Predicted Noise Level of Road Improvement Works in West Kowloon Reclamation, dB(A)<sup>3</sup></b>												42	59	Min	Max	Min	Max
<b>Overall Cumulative Noise Level, dB(A)</b>								69	67	67	71	69	69	67	69	69	71

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

- 1) Predicted Noise Levels are referred to NSR WK6 in Appendix G of Environmental Review for Proposed West Kowloon Terminus Concrete Batching Facility.
- 2) 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.
- 3) 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.
- 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: 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, dB(A)	Calculated SPL, dB(A)	2013					2014											
						8	9	10	11	12	1	2	3									
<b>1) Zone 1</b>																						
Activity 1 - D Walling	102	74	-45	3	60			60	60	60	60											
Activity 2 - Bored Piling	108	74	-45	3	66							66	66	66								
<b>2) Zone 2</b>																						
Activity 1 - D Walling																						
Zone 2.1	104	641	-64	3	43								43	43	43							
Zone 2.2	104	482	-62	3	46								46	46	46							
Zone 2.3	104	487	-62	3	46								46	46	46							
Zone 2.4	104	716	-65	3	42								42	42	42							
Activity 2 - Bored Piling																						
Zone 2.1	112	641	-64	3	50											50						
Zone 2.2	112	482	-62	3	53											53						
Zone 2.3	112	487	-62	3	53											53						
Zone 2.4	112	716	-65	3	50											50						
<b>3) Zone 3</b>																						
Activity 1 - D Walling	107	901	-67	3	43											43						
<b>4) Park Construction - Zone A</b>																						
Activity 1 - D Walling	109	1068	-69	3	43			43	43	43	43	43	43	43	43	43						
<b>5) ICC Footbridge</b>																						
Activity 1 - D Walling	106	846	-67	3	42			42	42	42	42	42	42	42	42	42						
<b>6) East Concrete Batching Plant (Operation)</b>																						
Activity 1 - D Walling	109	183	-53	3	58								58	58	58	58						
<b>7) Barging Point (BP)</b>																						
BP4	110	781	-66	3	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						
BP6	110	1036	-68	3	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						
<b>8) West Pier (Optional)</b>																						
Activity 1 - D Walling	112	1471	-71	3	43			43	43	43	43	43	43	43	43	43						
<b>9) South Pier (Optional)</b>																						
Activity 1 - D Walling	112	816	-66	3	48			48	48	48	48	48	48	48	48	48						
<b>10) Viewing Platform (Optional)</b>																						
Activity 1 - D Walling	108	462	-61	3	50			50	50	50	50	50	50	50	50	50						
<b>Predicted Noise Level of this Project, dB (A)</b>								61	61	61	68	67	67	67	61	61	67	68				
<b>Predicted Noise Level of Express Rail Link, dB(A)<sup>1</sup></b>								68	65	64	67	61	59									
<b>Predicted Noise Level of Road Works at West Kowloon, dB(A)<sup>2</sup></b>								60	60	60	60	60	60									
<b>Predicted Noise Level of Road Improvement Works in West Kowloon Reclamation, dB(A)<sup>3</sup></b>												43	58	Min	Max	Min	Max					
<b>Overall Cumulative Noise Level, dB(A)</b>								69	67	67	71	69	69	67	69	69	69	71				

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

- 1) Predicted Noise Levels are referred to NSR WK6 in Appendix G of Environmental Review for Proposed West Kowloon Terminus Concrete Batching Facility.
- 2) 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.
- 3) 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.
- 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: 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, dB(A)	Calculated SPL, dB(A)	2013					2014						
						8	9	10	11	12	1	2	3				
<b>1) Zone 1</b>																	
Activity 1 - D Walling	102	75	-46	3	59			59	59	59	59						
Activity 2 - Bored Piling	108	75	-46	3	65						65	65	65				
<b>2) Zone 2</b>																	
Activity 1 - D Walling																	
Zone 2.1	104	640	-64	3	43						43	43	43				
Zone 2.2	104	475	-62	3	46						46	46	46				
Zone 2.3	104	465	-61	3	46						46	46	46				
Zone 2.4	104	685	-65	3	43						43	43	43				
Activity 2 - Bored Piling																	
Zone 2.1	112	640	-64	3	50								50				
Zone 2.2	112	475	-62	3	53								53				
Zone 2.3	112	465	-61	3	53								53				
Zone 2.4	112	685	-65	3	50								50				
<b>3) Zone 3</b>																	
Activity 1 - D Walling	107	900	-67	3	43								43				
<b>4) Park Construction - Zone A</b>																	
	109	1046	-68	3	44			44	44	44	44	44	44				
<b>5) ICC Footbridge</b>																	
	106	843	-67	3	42			42	42	42	42	42	42				
<b>6) East Concrete Batching Plant (Operation)</b>																	
	109	160	-52	3	60						60	60	60				
<b>7) Barging Point (BP)</b>																	
BP4	110	750	-66	3	47			47	47	47	47	47	47				
BP5	110	795	-66	3	47			47	47	47	47	47	47				
BP6	110	993	-68	3	45			45	45	45	45	45	45				
BP7	110	1083	-69	3	44			44	44	44	44	44	44				
<b>8) West Pier (Optional)</b>																	
	112	1455	-71	3	43			43	43	43	43	43	43				
<b>9) South Pier (Optional)</b>																	
	112	780	-66	3	49			49	49	49	49	49	49				
<b>10) Viewing Platform (Optional)</b>																	
	108	398	-60	3	51			51	51	51	51	51	51				
<b>Predicted Noise Level of this Project, dB (A)</b>								61	61	61	68	67	68	61	61	67	68
<b>Predicted Noise Level of Express Rail Link, dB(A)<sup>1</sup></b>								67	62	62	66	60	58				
<b>Predicted Noise Level of Road Works at West Kowloon, dB(A)<sup>2</sup></b>								60	60	60	60	60	60				
<b>Predicted Noise Level of Road Improvement Works in West Kowloon Reclamation, dB(A)<sup>3</sup></b>												41	62	Min	Max	Min	Max
<b>Overall Cumulative Noise Level, dB(A)</b>								69	66	66	70	68	69	66	69	68	70

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

- 1) Predicted Noise Levels are referred to NSR WK7 in Appendix G of Environmental Review for Proposed West Kowloon Terminus Concrete Batching Facility.
- 2) 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.
- 3) 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.
- 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: 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, dB(A)	Calculated SPL, dB(A)	2013					2014											
						8	9	10	11	12	1	2	3									
<b>1) Zone 1</b>																						
Activity 1 - D Walling	102	90	-47	3	58			58	58	58	58											
Activity 2 - Bored Piling	108	90	-47	3	64							64	64	64								
<b>2) Zone 2</b>																						
Activity 1 - D Walling																						
Zone 2.1	104	645	-64	3	43								43	43	43							
Zone 2.2	104	480	-62	3	46								46	46	46							
Zone 2.3	104	470	-61	3	46								46	46	46							
Zone 2.4	104	685	-65	3	43								43	43	43							
Activity 2 - Bored Piling																						
Zone 2.1	112	645	-64	3	50											50						
Zone 2.2	112	480	-62	3	53											53						
Zone 2.3	112	470	-61	3	53											53						
Zone 2.4	112	685	-65	3	50											50						
<b>3) Zone 3</b>																						
Activity 1 - D Walling	107	905	-67	3	43											43						
<b>4) Park Construction - Zone A</b>																						
Activity 1 - D Walling	109	1065	-69	3	43			43	43	43	43	43	43	43	43	43						
<b>5) ICC Footbridge</b>																						
Activity 1 - D Walling	106	847	-67	3	42			42	42	42	42	42	42	42	42	42						
<b>6) East Concrete Batching Plant (Operation)</b>																						
Activity 1 - D Walling	109	170	-53	3	59								59	59	59	59						
<b>7) Barging Point (BP)</b>																						
BP4	110	745	-65	3	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						
BP6	110	993	-68	3	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						
<b>8) West Pier (Optional)</b>																						
Activity 1 - D Walling	112	1455	-71	3	43			43	43	43	43	43	43	43	43	43						
<b>9) South Pier (Optional)</b>																						
Activity 1 - D Walling	112	775	-66	3	49			49	49	49	49	49	49	49	49	49						
<b>10) Viewing Platform (Optional)</b>																						
Activity 1 - D Walling	108	400	-60	3	51			51	51	51	51	51	51	51	51	51						
<b>Predicted Noise Level of this Project, dB (A)</b>								60	60	60	66	66	66	66	66	66						
<b>Predicted Noise Level of Express Rail Link, dB(A)<sup>1</sup></b>								67	62	62	66	60	58									
<b>Predicted Noise Level of Road Works at West Kowloon, dB(A)<sup>2</sup></b>								60	60	60	60	60										
<b>Predicted Noise Level of Road Improvement Works in West Kowloon Reclamation, dB(A)<sup>3</sup></b>												41	60	Min	Max	Min	Max					
<b>Overall Cumulative Noise Level, dB(A)</b>								68	66	66	70	68	68	66	68	68	70					

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

- 1) Predicted Noise Levels are referred to NSR WK7 in Appendix G of Environmental Review for Proposed West Kowloon Terminus Concrete Batching Facility.
- 2) 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.
- 3) 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.
- 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: 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, dB(A)	Calculated SPL, dB(A)	2013					2014						
						8	9	10	11	12	1	2	3				
<b>1) Zone 1</b>																	
Activity 1 - D Walling	102	54	-43	3	62			62	62	62	62						
Activity 2 - Bored Piling	108	54	-43	3	68						68	68	68				
<b>2) Zone 2</b>																	
Activity 1 - D Walling																	
Zone 2.1	104	540	-63	3	45							45	45	45			
Zone 2.2	104	371	-59	3	48							48	48	48			
Zone 2.3	104	366	-59	3	48							48	48	48			
Zone 2.4	104	580	-63	3	44							44	44	44			
Activity 2 - Bored Piling																	
Zone 2.1	112	587	-63	3	51									51			
Zone 2.2	112	419	-60	3	54									54			
Zone 2.3	112	422	-61	3	54									54			
Zone 2.4	112	614	-64	3	51									51			
<b>3) Zone 3</b>																	
Activity 1 - D Walling	107	795	-66	3	44									44			
<b>4) Park Construction - Zone A</b>																	
Activity 1 - D Walling	109	996	-68	3	44			44	44	44	44	44	44	44			
<b>5) ICC Footbridge</b>																	
Activity 1 - D Walling	106	744	-65	3	43			43	43	43	43	43	43	43			
<b>6) East Concrete Batching Plant (Operation)</b>																	
Activity 1 - D Walling	109	68	-45	3	67							67	67	67			
<b>7) Barging Point (BP)</b>																	
BP4	110	650	-64	3	49			49	49	49	49	49	49	49			
BP5	110	695	-65	3	48			48	48	48	48	48	48	48			
BP6	110	900	-67	3	46			46	46	46	46	46	46	46			
BP7	110	985	-68	3	45			45	45	45	45	45	45	45			
<b>8) West Pier (Optional)</b>																	
Activity 1 - D Walling	112	1350	-71	3	44			44	44	44	44	44	44	44			
<b>9) South Pier (Optional)</b>																	
Activity 1 - D Walling	112	680	-65	3	50			50	50	50	50	50	50	50			
<b>10) Viewing Platform (Optional)</b>																	
Activity 1 - D Walling	108	291	-57	3	54			54	54	54	54	54	54	54			
<b>Predicted Noise Level of this Project, dB (A)</b>								64	64	64	72	71	71	64	64	71	72
<b>Predicted Noise Level of Express Rail Link, dB(A)<sup>1</sup></b>								74	72	72	73	70	69				
<b>Predicted Noise Level of Road Works at West Kowloon, dB(A)<sup>2</sup></b>								60	60	60	60	60	60	<b>2013</b>	<b>2014</b>		
<b>Predicted Noise Level of Road Improvement Works in West Kowloon Reclamation, dB(A)<sup>3</sup></b>												41	62	<b>Min</b>	<b>Max</b>	<b>Min</b>	<b>Max</b>
<b>Overall Cumulative Noise Level, dB(A)</b>								75	73	73	75	74	74	73	75	74	75

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

- 1) Predicted Noise Levels are referred to NSR WK7a in Appendix G of Environmental Review for Proposed West Kowloon Terminus Concrete Batching Facility.
- 2) 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.
- 3) 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.
- 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: 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)	2013			2014								
						10	11	12	1	2	3						
<b>1) Zone 1</b>																	
Activity 1 - D Walling	102	676	-65	3	40		40	40	40								
Activity 2 - Bored Piling	108	675	-65	3	46				46	46	46						
<b>2) Zone 2</b>																	
Activity 1 - D Walling																	
Zone 2.1	104	337	-59	3	49				49	49	49						
Zone 2.2	104	337	-59	3	49				49	49	49						
Zone 2.3	104	511	-62	3	45				45	45	45						
Zone 2.4	104	476	-62	3	46				46	46	46						
Activity 2 - Bored Piling																	
Zone 2.1	112	336	-59	3	56						56						
Zone 2.2	112	336	-59	3	56						56						
Zone 2.3	112	510	-62	3	52						52						
Zone 2.4	112	475	-62	3	53						53						
<b>3) Zone 3</b>																	
Activity 1 - D Walling	107	347	-59	3	52						52						
<b>4) Park Construction - Zone A</b>																	
	109	675	-65	3	47		47	47	47	47	47						
<b>5) ICC Footbridge</b>																	
	106	272	-57	3	52		52	52	52	52	52						
<b>6) East Concrete Batching Plant (Operation)</b>																	
	109	703	-65	3	47						47						
<b>7) Barging Point (BP)</b>																	
BP4	110	451	-61	3	52		52	52	52	52	52						
BP5	110	461	-61	3	52		52	52	52	52	52						
BP6	110	611	-64	3	49		49	49	49	49	49						
BP7	110	726	-65	3	48		48	48	48	48	48						
<b>8) West Pier (Optional)</b>																	
	112	826	-66	3	48		48	48	48	48	48						
<b>9) South Pier (Optional)</b>																	
	112	476	-62	3	53		53	53	53	53	53						
<b>10) Viewing Platform (Optional)</b>																	
	108	561	-63	3	48		48	48	48	48	48						
<b>Predicted Noise Level of this Project, dB (A)</b>							60	60	60	61	61	64	60	60	61	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	Min	Max	Min	Max
<b>Overall Cumulative Noise Level, dB(A)</b>							60	60	60	61	72	73	60	60	61	73	

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

- 1) 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.
- 2) 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.
- 3) 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.
- 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.

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	49								
Activity 5 - Superstructure	108	481	-62	3	50								50	50	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	65						
Zone 2.2	108	79	-46	3	65	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	58						
Zone 2.4	108	327	-58	3	52	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	51						
Zone 2.6	108	277	-57	3	54	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	55						
Zone 2.8	108	267	-57	3	54	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	54	54	
Zone 2.2	100	102	-48	3	55						55	55	55	55	55	55	55	55	55	
Zone 2.3	99	203	-54	3	48						48	48	48	48	48	48	48	48	48	
Zone 2.4	99	357	-59	3	43						43	43	43	43	43	43	43	43	43	
Zone 2.5	99	377	-60	3	42						42	42	42	42	42	42	42	42	42	
Zone 2.6	99	258	-56	3	46						46	46	46	46	46	46	46	46	46	
Zone 2.7	100	179	-53	3	50						50	50	50	50	50	50	50	50	50	
Zone 2.8	100	228	-55	3	48						48	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	59	59	
Zone 2.2	106	102	-48	3	60									60	60	60	60	60	60	
Zone 2.3	105	203	-54	3	54									54	54	54	54	54	54	
Zone 2.4	105	357	-59	3	49									49	49	49	49	49	49	
Zone 2.5	105	377	-60	3	49									49	49	49	49	49	49	
Zone 2.6	105	258	-56	3	52									52	52	52	52	52	52	
Zone 2.7	106	179	-53	3	56									56	56	56	56	56	56	
Zone 2.8	106	228	-55	3	53									53	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	49	49	
5) ICC Footbridge	106	211	-54	3	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	
6) Flyover	106	287	-57	3	52						52	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	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	55	55	
BP5	110	327	-58	3	54	54	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	51	51	
BP7	110	616	-64	3	49	49	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	49	49	
10) South Pier (Optional)	112	347	-59	3	57	57	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	52	52	
<b>Predicted Noise Level of this Project, dB (A)</b>						71	71	71	71	72	71	71	72	69	69	69	69	69	69	
<b>Predicted Noise Level of Express Rail Link, dB(A)<sup>1</sup></b>						62	62	62	61	61	57	57	63	63	63	63	63	63	63	
<b>Predicted Noise Level of Road Works at West Kowloon, dB(A)<sup>2</sup></b>						70	69	69	69	69	69									
<b>Overall Cumulative Noise Level, dB(A)</b>						74	73	73	73	74	73	71	72	70	70	70	70	70	70	70
															2014	2015				
															Min	Max	Min	Max		
															69	72	69	69		
															2014	2015				
															Min	Max	Min	Max		
															70	74	70	70		

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

- 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.
- 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.
- 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: 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			
																2014		2015		
<b>Predicted Noise Level of this Project, dB (A)</b>																Min	Max	Min	Max	
<b>Predicted Noise Level of Express Rail Link, dB(A)<sup>1</sup></b>																69	69	69	70	
<b>Predicted Noise Level of Road Works at West Kowloon, dB(A)<sup>2</sup></b>																63	63	63		
<b>Overall Cumulative Noise Level, dB(A)</b>																72	72	72	71	
																2014		2015		
																Min	Max	Min	Max	
																69	71	69	69	

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	46	46	46	46	46	46	46			
Activity 4 - Basement and Underpass	108	391	-60	3	51	51	51	51	51	51	51	51	51	51	51	51	51			
Activity 5 - Superstructure	108	391	-60	3	51	51	51	51	51	51	51	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	56	56	56	56	56	56	56			
Zone 2.2	104	73	-45	3	61	61	61	61	61	61	61	61	61	61	61	61	61			
Zone 2.3	104	96	-48	3	59	59	59	59	59	59	59	59	59	59	59	59	59			
Zone 2.4	97	228	-55	3	45	45	45	45	45	45	45	45	45	45	45	45	45			
Zone 2.5	97	312	-58	3	42	42	42	42	42	42	42	42	42	42	42	42	42			
Zone 2.6	97	247	-56	3	44	44	44	44	44	44	44	44	44	44	44	44	44			
Zone 2.7	104	252	-56	3	51	51	51	51	51	51	51	51	51	51	51	51	51			
Zone 2.8	97	302	-58	3	42	42	42	42	42	42	42	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	60	60	60	60	60			
Zone 2.2	108	73	-45	3	65	65	65	65	65	65	65	65	65	65	65	65	65			
Zone 2.3	108	96	-48	3	63	63	63	63	63	63	63	63	63	63	63	63	63			
Zone 2.4	108	228	-55	3	56	56	56	56	56	56	56	56	56	56	56	56	56			
Zone 2.5	108	312	-58	3	53	53	53	53	53	53	53	53	53	53	53	53	53			
Zone 2.6	108	247	-56	3	55	55	55	55	55	55	55	55	55	55	55	55	55			
Zone 2.7	108	252	-56	3	55	55	55	55	55	55	55	55	55	55	55	55	55			
Zone 2.8	108	302	-58	3	53	53	53	53	53	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	50	50	50	50			
Zone 2.2	100	92	-47	3	56	56	56	56	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	52	52	52	52			
Zone 2.4	99	257	-56	3	46	46	46	46	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	44	44	44	44			
Zone 2.6	99	203	-54	3	48	48	48	48	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	50	50	50	50			
Zone 2.8	99	282	-57	3	45	45	45	45	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	56	56	56	56	56	56	56			
Zone 2.2	106	92	-47	3	61	61	61	61	61	61	61	61	61	61	61	61	61			
Zone 2.3	106	139	-51	3	58	58	58	58	58	58	58	58	58	58	58	58	58			
Zone 2.4	105	257	-56	3	52	52	52	52	52	52	52	52	52	52	52	52	52			
Zone 2.5	105	302	-58	3	51	51	51	51	51	51	51	51	51	51	51	51	51			
Zone 2.6	105	203	-54	3	54	54	54	54	54	54	54	54	54	54	54	54	54			
Zone 2.7	106	188	-53	3	55	55	55	55	55	55	55	55	55	55	55	55	55			
Zone 2.8	105	282	-57	3	51	51	51	51	51	51	51	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	58	58	58	58			
<b>4) Park Construction - Zone A</b>																				
Activity 1 - D Walling	109	650	-64	3	48	48	48	48	48	48	48	48	48	48	48	48	48			
<b>5) ICC Footbridge</b>																				
Activity 1 - D Walling	106	298	-57	3	51	51	51	51	51	51	51	51	51	51	51	51	51			
<b>6) Flyover</b>																				
Activity 1 - D Walling	106	379	-60	3	49	49	49	49	49	49	49	49	49	49	49	49	49			
<b>7) East Concrete Batching Plant (Operation)</b>																				
Activity 1 - D Walling	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			
<b>9) West Pier (Optional)</b>																				
Activity 1 - D Walling	112	936	-67	3	48	48	48	48	48	48	48	48	48	48	48	48	48			
<b>10) South Pier (Optional)</b>																				
Activity 1 - D Walling	112	396	-60	3	55	55	55	55	55	55	55	55	55	55	55	55	55			
<b>11) Viewing Platform (Optional)</b>																				
Activity 1 - D Walling	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	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			
														<b>2014</b>		<b>2015</b>				
														Min	Max	Min	Max			
														68	72	68	68			
														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) Barging 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">Predicted Noise Level of this Project, dB (A)</td> <td>66</td><td>66</td><td>69</td><td>69</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>58</td><td>61</td><td>58</td><td>65</td> </tr> <tr> <td colspan="16">Overall Cumulative Noise Level, dB(A)</td> <td>68</td><td>69</td><td>70</td><td>71</td> </tr> </table>																																		2014	2015																	Min	Max	Min	Max	Predicted Noise Level of this Project, dB (A)																66	66	69	69	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>																58	61	58	65	Overall Cumulative Noise Level, dB(A)																68	69	70	71
																2014	2015																																																																																																																																										
																Min	Max	Min	Max																																																																																																																																								
Predicted Noise Level of this Project, dB (A)																66	66	69	69																																																																																																																																								
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>																58	61	58	65																																																																																																																																								
Overall Cumulative Noise Level, dB(A)																68	69	70	71																																																																																																																																								

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	4																																																																																																																																																																																																										
<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																																																																																																																																																																																																											
<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>67</td><td>67</td><td>68</td><td>68</td><td>68</td><td>67</td><td>67</td><td>68</td><td>67</td><td>67</td><td>67</td><td>67</td><td>67</td><td>67</td><td>67</td><td>67</td><td>67</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>55</td><td>55</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 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>62</td><td>65</td><td>62</td><td>69</td><td>68</td><td>68</td><td>68</td><td>69</td><td>62</td><td>62</td><td>62</td><td>62</td><td>42</td><td>42</td><td>42</td><td>42</td><td>42</td> </tr> <tr> <td colspan="16" style="text-align: center;">Overall Cumulative Noise Level, dB(A)</td> <td>69</td><td>70</td><td>70</td><td>72</td><td>72</td><td>71</td><td>71</td><td>72</td><td>68</td><td>68</td><td>67</td><td>67</td><td>68</td><td>72</td><td>67</td><td>68</td><td>68</td> </tr> </table>																																		2014	2015																	Min	Max	Min	Max	Predicted Noise Level of this Project, dB (A)																67	67	68	68	68	67	67	68	67	67	67	67	67	67	67	67	67	Predicted Noise Level of Express Rail Link, dB(A) <sup>1</sup>																60	60	60	60	60	60	58	58	55	55								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>																62	65	62	69	68	68	68	69	62	62	62	62	42	42	42	42	42	Overall Cumulative Noise Level, dB(A)																69	70	70	72	72	71	71	72	68	68	67	67	68	72	67	68	68
																2014	2015																																																																																																																																																																																																											
																Min	Max	Min	Max																																																																																																																																																																																																									
Predicted Noise Level of this Project, dB (A)																67	67	68	68	68	67	67	68	67	67	67	67	67	67	67	67	67																																																																																																																																																																																												
Predicted Noise Level of Express Rail Link, dB(A) <sup>1</sup>																60	60	60	60	60	60	58	58	55	55																																																																																																																																																																																																			
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>																62	65	62	69	68	68	68	69	62	62	62	62	42	42	42	42	42																																																																																																																																																																																												
Overall Cumulative Noise Level, dB(A)																69	70	70	72	72	71	71	72	68	68	67	67	68	72	67	68	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.
- 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: 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																																																																																																																																										
<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	43	43	43	43	43	43	43	43	43																																																																																																																																														
<b>4) Park Construction - Zone A</b>																																																																																																																																																											
5) ICC Footbridge	106	847	-67	3	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 style="text-align: center;">2014</td> <td style="text-align: center;">2015</td> </tr> <tr> <td colspan="16"></td> <td style="text-align: center;">Min</td> <td style="text-align: center;">Max</td> <td style="text-align: center;">Min</td> <td style="text-align: center;">Max</td> </tr> <tr> <td colspan="16" style="text-align: center;">Predicted Noise Level of this Project, dB (A)</td> <td style="text-align: center;">66</td> <td style="text-align: center;">66</td> <td style="text-align: center;">68</td> <td style="text-align: center;">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 style="text-align: center;">60</td> <td style="text-align: center;">60</td> <td style="text-align: center;">60</td> <td style="text-align: center;">60</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 style="text-align: center;">60</td> <td style="text-align: center;">59</td> <td style="text-align: center;">59</td> <td style="text-align: center;">59</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 style="text-align: center;">60</td> <td style="text-align: center;">63</td> <td style="text-align: center;">60</td> <td style="text-align: center;">66</td> </tr> <tr> <td colspan="16" style="text-align: center;">Overall Cumulative Noise Level, dB(A)</td> <td style="text-align: center;">69</td> <td style="text-align: center;">69</td> <td style="text-align: center;">69</td> <td style="text-align: center;">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

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- 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.
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**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	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	48								
Zone 2.2	108	386	-60	3	51	51	51	51	51	51	51	51	51								
Zone 2.3	108	251	-56	3	55	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	45				
Zone 2.2	105	415	-60	3	48							48	48	48	48	48	48				
Zone 2.3	106	256	-56	3	52							52	52	52	52	52	52				
Zone 2.4	106	112	-49	3	60							60	60	60	60	60	60				
Zone 2.5	106	97	-48	3	61							61	61	61	61	61	61				
Zone 2.6	106	251	-56	3	53							53	53	53	53	53	53				
Zone 2.7	106	411	-60	3	48							48	48	48	48	48	48				
Zone 2.8	105	610	-64	3	44							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>																					
Activity 1 - D Walling	109	996	-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	744	-65	3	43	43	43	43	43	43	43	43	43	43	43	43	43				
<b>6) Flyover</b>																					
Activity 1 - D Walling	106	828	-66	3	42					42	42	42	42	42	42	42	42				
<b>7) East Concrete Batching Plant (Operation)</b>																					
Activity 1 - D Walling	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>																					
Activity 1 - D Walling	112	1350	-71	3	45	45	45	45	45	45	45	45	45	45	45	45	45				
<b>10) South Pier (Optional)</b>																					
Activity 1 - D Walling	112	680	-65	3	51	51	51	51	51	51	51	51	51	51	51	51	51				
<b>11) Viewing Platform (Optional)</b>																					
Activity 1 - D Walling	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.

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 5 - Superstructure</b>								
	<b>Group 1</b>								
	Crane, tower (electric)	CNP 049	95	1	50%			92	
	Crane, mobile	EPD-01516	101	1	50%	-5	Movable Barrier	93	
	Crane Lorry 5.5 tonne < gross vehicle weight =< 38 tonne	[1]	105	1	50%	-5	Movable Barrier	97	
	Concrete pump, stationary/ lorry mounted	CNP 047	109	1	50%	-10	Movable Barrier	96	
	Poker, vibratory, hand-held (electric)	[1]	102	3	50%	-10	Movable Barrier	94	
	Bar bender and cutter (electric)	CNP 021	90	1	50%	-10	Movable Barrier	77	
	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	
	Drill/grinder, hand-held (electric)	CNP 065	98	5	30%	-10	Movable Barrier	90	
	Water pump (electric)	CNP 281	88	2	30%	-15	Enclosure	71	
	Excavator, wheeled/tracked	EPD-01230	99	2	30%	-5	Movable Barrier	92	
	Fork Lift Truck	[2]	104	2	30%	-5	Movable Barrier	97	
	Hoist, passenger/ material (electric)	CNP 122	95	2	30%			93	
								Total SWL, dB (A)	<b>107</b>
	<b>Group 2</b>								
	Crane, mobile	EPD-01516	101	1	50%	-5	Movable Barrier	93	
	Crane Lorry 5.5 tonne < gross vehicle weight =< 38 tonne	[1]	105	1	50%	-5	Movable Barrier	97	
	Concrete pump, stationary/ lorry mounted	CNP 047	109	1	50%	-10	Movable Barrier	96	
	Poker, vibratory, hand-held (electric)	[1]	102	2	50%	-10	Movable Barrier	92	
	Bar bender and cutter (electric)	CNP 021	90	1	50%	-10	Movable Barrier	77	
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	1	100%	-15	Enclosure	80	
	Water pump (electric)	CNP 281	88	1	30%	-15	Enclosure	68	
	Excavator, wheeled/tracked	EPD-01230	99	1	30%	-5	Movable Barrier	89	
	Fork Lift Truck	[2]	104	1	30%	-5	Movable Barrier	94	
	Hoist, passenger/ material (electric)	CNP 122	95	1	30%			90	
								Total SWL, dB (A)	<b>102</b>
								Maximum SWL, dB (A)	<b>107</b>
	2a	<b>Zone 2 (for area with less plant) [3]</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	1	30%	-5	Movable Barrier	95	
							Total SWL, dB (A)	<b>99</b>	
<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	50%	-5	Movable Barrier	101	
							Total SWL, dB (A)	<b>105</b>	
2b		<b>Zone 2 (for area with more plant) [3]</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	50%	-5	Movable Barrier	101	
								Total SWL, dB (A)	<b>105</b>
	2c	<b>Zone 2 (for superstructure only)</b>							
<b>Activity 5 - Superstructure</b>									
Crane, tower (electric)		CNP 049	95	4	50%			98	
Crane, mobile		EPD-01516	101	8	50%	-5	Movable Barrier	102	
Crane Lorry 5.5 tonne < gross vehicle weight =< 38 tonne		[1]	105	8	50%	-5	Movable Barrier	106	
Concrete pump, stationary/ lorry mounted		CNP 047	109	8	50%	-10	Movable Barrier	105	
Poker, vibratory, hand-held (electric)		[1]	102	40	50%	-10	Movable Barrier	105	
Bar bender and cutter (electric)		CNP 021	90	8	50%	-10	Movable Barrier	86	
Generator, super silenced, 70 dB(A) at 7 m		CNP 103	95	9	100%	-15	Enclosure	90	
Air compressor, air flow > 30m3/min		CNP 003	104	4	100%	-15	Enclosure	95	
Concrete lorry mixer		CNP 044	109	8	50%	-5	Movable Barrier	110	
Drill/grinder, hand-held (electric)		CNP 065	98	20	30%	-10	Movable Barrier	96	
Water pump (electric)		CNP 281	88	14	30%	-15	Enclosure	79	
Excavator, wheeled/tracked		EPD-01230	99	14	30%	-5	Movable Barrier	100	
Fork Lift Truck		[2]	104	14	30%	-5	Movable Barrier	105	
Hoist, passenger/ material (electric)		CNP 122	95	14	30%			101	
							Total SWL, dB (A)	<b>115</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)	
3	<b>Zone 3</b>								
	<b>Activity 3 - Excavation</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	
	Excavator, wheeled/tracked	EPD-01230	99	4	60%	-5	Movable Barrier	98	
	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	6	30%	-5	Movable Barrier	103	
								Total SWL, dB (A)	106
	<b>Activity 4 - Basement and Underpass</b>								
	Crane, tower (electric)	CNP 049	95	2	60%			96	
	Crane, mobile	EPD-01516	101	4	60%	-5	Movable Barrier	100	
	Crane Lorry 5.5 tonne < gross vehicle weight =< 38 tonne	[1]	105	4	60%	-5	Movable Barrier	104	
	Concrete pump, stationary/ lorry mounted	CNP 047	109	4	60%	-10	Movable Barrier	103	
	Poker, vibratory, hand-held (electric)	[1]	102	20	60%	-10	Movable Barrier	103	
	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	
	Air compressor, air flow > 30m3/min	CNP 003	104	2	100%	-15	Enclosure	92	
	Concrete lorry mixer	CNP 044	109	4	60%	-5	Movable Barrier	108	
								Total SWL, dB (A)	111
	<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	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	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	6	30%	-10	Movable Barrier	91	
	Water pump (electric)	CNP 281	88	4	30%	-15	Enclosure	74	
	Excavator, wheeled/tracked	EPD-01230	99	4	30%	-5	Movable Barrier	95	
	Fork Lift Truck	[2]	104	4	30%	-5	Movable Barrier	100	
	Hoist, passenger/ material (electric)	CNP 122	95	4	30%			96	
								Total SWL, dB (A)	109
	4	<b>Park Construction - Zone A</b>							
		<b>Activity 1 - Park Construction</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, 5.5 tonne < gross vehicle weight =< 38 tonne		[1]	105	2	60%	-5	Movable Barrier	101	
							Total SWL, dB (A)	105	
<b>Activity 2 - 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	
							Maximum SWL, dB (A)	108	
5	<b>Park Construction - Zone B</b>								
	Dump truck, 5.5 tonne < gross vehicle weight =< 38 tonne	[1]	105	1	60%	-5	Movable Barrier	98	
	Crane, mobile	EPD-01516	101	1	60%	-5	Movable Barrier	94	
	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	
	Lorry, 5.5 tonne < gross vehicle weight =< 38 tonne	[1]	105	1	60%	-5	Movable Barrier	98	
							Total SWL, dB (A)	102	
6/7	<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)	104
	<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)	106
								Maximum SWL, dB (A)	106

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)		
8	<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>	
	9	<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>		
10	<b>Modification of seawalls and construction of seawater outfalls</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%	-15	Enclosure	83	
		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>		
11/12	<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%	-15	Enclosure	79	
		Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	2	100%	-15	Enclosure	83	
		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%	-15	Enclosure	83	
		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>	
	13	<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.

**Mitigated Construction Noise Impact**

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

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB	Distance (m)	Distance Correction, dB	Facade Correction,	Calculated SPL, dB(A)	2015												2016		
						4	5	6	7	8	9	10	11	12	1	2	3			
<b>1) Zone 1</b>																				
Activity 5 - Superstructure	107	481	-62	3	48	48	48	48	48	48	48	48	48	48	48	48	48	48		
<b>2) Zone 2</b>																				
Activity 3 - Excavation																				
Zone 2.1	100	116	-49	3	54	54	54	54	54	54	54	54	54	54	54	54	54	54		
Zone 2.2	100	102	-48	3	55	55	55	55	55	55	55	55	55	55	55	55	55	55		
Zone 2.3	99	203	-54	3	48	48	48	48	48	48	48	48	48	48	48	48	48	48		
Zone 2.4	99	357	-59	3	43	43	43	43	43	43	43	43	43	43	43	43	43	43		
Zone 2.5	99	377	-60	3	42	42	42	42	42	42	42	42	42	42	42	42	42	42		
Zone 2.6	99	258	-56	3	46	46	46	46	46	46	46	46	46	46	46	46	46	46		
Zone 2.7	100	179	-53	3	50	50	50	50	50	50	50	50	50	50	50	50	50	50		
Zone 2.8	100	228	-55	3	48	48	48	48	48	48	48	48	48	48	48	48	48	48		
Activity 4 - Basement and Underpass																				
Zone 2.1	105	116	-49	3	59	59	59	59	59	59	59	59	59	59	59	59	59	59		
Zone 2.2	105	102	-48	3	60	60	60	60	60	60	60	60	60	60	60	60	60	60		
Zone 2.3	105	203	-54	3	54	54	54	54	54	54	54	54	54	54	54	54	54	54		
Zone 2.4	105	357	-59	3	49	49	49	49	49	49	49	49	49	49	49	49	49	49		
Zone 2.5	105	377	-60	3	48	48	48	48	48	48	48	48	48	48	48	48	48	48		
Zone 2.6	105	258	-56	3	52	52	52	52	52	52	52	52	52	52	52	52	52	52		
Zone 2.7	105	179	-53	3	55	55	55	55	55	55	55	55	55	55	55	55	55	55		
Zone 2.8	105	228	-55	3	53	53	53	53	53	53	53	53	53	53	53	53	53	53		
Activity 5 - Superstructure																				
Lyric Theatre	115	258	-56	3	61									61	61	61	61	61		
CCP	115	282	-57	3	61									61	61	61	61	61		
<b>3) Zone 3</b>																				
Activity 3 - Excavation	106	317	-58	3	51	51	51	51	51	51	51									
Activity 4 - Basement and Underpass	111	317	-58	3	56							56	56	56	56	56	56	56		
Activity 5 - Superstructure	109	256	-56	3	56													56		
<b>4) Park Construction - Zone A</b>	108	576	-63	3	48	48														
<b>5) Park Construction - Zone B</b>	102	264	-56	3	49		49	49	49	49	49	49	49	49	49	49	49	49		
<b>6) ICC Footbridge</b>	106	211	-54	3	54															
<b>7) Flyover</b>	106	285	-57	3	52	52	52	52	52	52	52	52	52	52	52	52	52	52		
<b>8) East Concrete Batching Plant (Operation)</b>	109	461	-61	3	50	50	50	50	50	50	50	50	50	50	50	50	50	50		
<b>9) Barging Point (BP)</b>																				
BP4	110	307	-58	3	55	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	54		
BP6	110	506	-62	3	51	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	49		
<b>10) Modification of seawalls / construction of seawater outfalls</b>																				
Outfall of WKCD DCWS	112	292	-57	3	57				57	57	57	57	57	57						
Outfall of Independent Cooling System for Freespace	112	761	-66	3	49				49	49	49	49	49	49						
<b>11) West Pier (Optional)</b>	112	846	-67	3	49	49	49	49	49	49	49	49	49	49	49	49	49	49		
<b>12) South Pier (Optional)</b>	112	347	-59	3	56	56	56	56	56	56	56	56	56	56	56	56	56	56		
<b>13) Viewing Platform (Optional)</b>	108	342	-59	3	52	52	52	52	52	52	52	52	52	52	52	52	52	52		
<b>Predicted Noise Level of this Project, dB (A)</b>															2015	2016				
<b>Predicted Noise Level of Express Rail Link, dB(A)<sup>1</sup></b>															68	70	69	70		
															2015	2016				
															Min	Max	Min	Max		
<b>Overall Cumulative Noise Level, dB(A)</b>															69	69	68	70		

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

- 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.
- Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

**Mitigated Construction Noise Impact**

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

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB	Distance (m)	Distance Correction, dB	Facade Correction,	Calculated SPL, dB(A)	2015												2016		
						4	5	6	7	8	9	10	11	12	1	2	3			
<b>1) Zone 1</b>																				
Activity 5 - Superstructure	107	576	-63	3	47	47	47	47	47	47	47	47	47	47	47	47	47			
<b>2) Zone 2</b>																				
Activity 3 - Excavation																				
Zone 2.1	100	111	-49	3	54	54	54	54	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	51	51	51	51			
Zone 2.3	99	302	-58	3	44	44	44	44	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	41	41	41	41			
Zone 2.5	99	456	-61	3	41	41	41	41	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	43	43	43	43			
Zone 2.7	100	228	-55	3	48	48	48	48	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	49	49	49	49			
Activity 4 - Basement and Underpass																				
Zone 2.1	105	111	-49	3	59	59	59	59	59	59	59	59	59	59	59	59	59			
Zone 2.2	105	169	-53	3	56	56	56	56	56	56	56	56	56	56	56	56	56			
Zone 2.3	105	302	-58	3	50	50	50	50	50	50	50	50	50	50	50	50	50			
Zone 2.4	105	446	-61	3	47	47	47	47	47	47	47	47	47	47	47	47	47			
Zone 2.5	105	456	-61	3	47	47	47	47	47	47	47	47	47	47	47	47	47			
Zone 2.6	105	342	-59	3	49	49	49	49	49	49	49	49	49	49	49	49	49			
Zone 2.7	105	228	-55	3	53	53	53	53	53	53	53	53	53	53	53	53	53			
Zone 2.8	105	208	-54	3	54	54	54	54	54	54	54	54	54	54	54	54	54			
Activity 5 - Superstructure																				
Lyric Theatre	115	382	-60	3	58									58	58	58	58			
CCP	115	218	-55	3	63									63	63	63	63			
<b>3) Zone 3</b>																				
Activity 3 - Excavation	106	227	-55	3	54	54	54	54	54	54	54									
Activity 4 - Basement and Underpass	111	227	-55	3	59							59	59	59	59	59	59			
Activity 5 - Superstructure	109	180	-53	3	59												59			
4) Park Construction - Zone A	108	525	-62	3	49	49														
5) Park Construction - Zone B	102	283	-57	3	48		48	48	48	48	48	48	48	48	48	48	48			
6) ICC Footbridge	106	125	-50	3	59															
7) Flyover	106	198	-54	3	55	55	55	55	55	55	55	55	55	55	55	55	55			
8) East Concrete Batching Plant (Operation)	109	553	-63	3	49	49	49	49	49	49	49	49	49	49	49	49	49			
<b>9) Barging 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			
<b>10) Modification of seawalls / construction of seawater outfalls</b>																				
Outfall of WKCD DCWS	112	297	-57	3	57				57	57	57	57	57	57						
Outfall of Independent Cooling System for Freespace	112	701	-65	3	50				50	50	50	50	50	50						
11) West Pier (Optional)	112	756	-66	3	50	50	50	50	50	50	50	50	50	50	50	50	50			
12) South Pier (Optional)	112	327	-58	3	57	57	57	57	57	57	57	57	57	57	57	57	57			
13) 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>															<b>2015</b>		<b>2016</b>			
<b>Predicted Noise Level of Express Rail Link, dB(A)<sup>1</sup></b>															67		69			
<b>Overall Cumulative Noise Level, dB(A)</b>															67		69			
															<b>Min</b>		<b>Max</b>			
															67		69			
															<b>2015</b>		<b>2016</b>			
															67		69			
															<b>Min</b>		<b>Max</b>			
															67		69			

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) Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

**Mitigated Construction Noise Impact**

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

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB	Distance (m)	Distance Correction, dB	Facade Correction,	Calculated SPL, dB(A)	2015										2016		
						4	5	6	7	8	9	10	11	12	1	2	3	
<b>1) Zone 1</b>																		
Activity 5 - Superstructure	107	391	-60	3	50	50	50	50	50	50	50	50	50	50	50	50		
<b>2) Zone 2</b>																		
Activity 3 - Excavation																		
Zone 2.1	100	178	-53	3	50	50	50	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	56	56	56		
Zone 2.3	99	139	-51	3	51	51	51	51	51	51	51	51	51	51	51	51		
Zone 2.4	99	257	-56	3	46	46	46	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	44	44	44		
Zone 2.6	99	203	-54	3	48	48	48	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	50	50	50		
Zone 2.8	100	282	-57	3	46	46	46	46	46	46	46	46	46	46	46	46		
Activity 4 - Basement and Underpass																		
Zone 2.1	105	178	-53	3	55	55	55	55	55	55	55	55	55	55	55	55		
Zone 2.2	105	92	-47	3	61	61	61	61	61	61	61	61	61	61	61	61		
Zone 2.3	105	139	-51	3	57	57	57	57	57	57	57	57	57	57	57	57		
Zone 2.4	105	257	-56	3	52	52	52	52	52	52	52	52	52	52	52	52		
Zone 2.5	105	302	-58	3	50	50	50	50	50	50	50	50	50	50	50	50		
Zone 2.6	105	203	-54	3	54	54	54	54	54	54	54	54	54	54	54	54		
Zone 2.7	105	188	-53	3	55	55	55	55	55	55	55	55	55	55	55	55		
Zone 2.8	105	282	-57	3	51	51	51	51	51	51	51	51	51	51	51	51		
Activity 5 - Superstructure																		
Lyric Theatre	115	337	-59	3	59									59	59	59		
CCP	115	203	-54	3	63									63	63	63		
<b>3) Zone 3</b>																		
Activity 3 - Excavation	106	411	-60	3	48	48	48	48	48	48	48							
Activity 4 - Basement and Underpass	111	411	-60	3	54							54	54	54	54	54		
Activity 5 - Superstructure	109	341	-59	3	53											53		
4) Park Construction - Zone A	108	650	-64	3	47	47												
5) Park Construction - Zone B	102	262	-56	3	49		49	49	49	49	49	49	49	49	49	49		
6) ICC Footbridge	106	298	-57	3	51													
7) Flyover	106	379	-60	3	49	49	49	49	49	49	49	49	49	49	49	49		
8) East Concrete Batching Plant (Operation)	109	377	-60	3	52	52	52	52	52	52	52	52	52	52	52	52		
<b>9) Barging Point (BP)</b>																		
BP4	110	357	-59	3	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		
BP6	110	576	-63	3	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		
<b>10) Modification of seawalls / construction of seawater outfalls</b>																		
Outfall of WKCD DCWS	112	337	-59	3	56				56	56	56	56	56	56	56			
Outfall of Independent Cooling System for Freespace	112	836	-66	3	48				48	48	48	48	48	48	48			
11) West Pier (Optional)	112	936	-67	3	48	48	48	48	48	48	48	48	48	48	48	48		
12) South Pier (Optional)	112	396	-60	3	55	55	55	55	55	55	55	55	55	55	55	55		
13) Viewing Platform (Optional)	108	297	-57	3	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>Overall Cumulative Noise Level, dB(A)</b>																		
														<b>2015</b>	<b>2016</b>			
														<b>Min</b>	<b>Max</b>	<b>Min</b>	<b>Max</b>	
														<b>2015</b>	<b>2016</b>			
														<b>Min</b>	<b>Max</b>	<b>Min</b>	<b>Max</b>	
														67	70	69	70	
														68	71	69	70	

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

- 1) 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.
- 2) Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

**Mitigated Construction Noise Impact**

**NSR: RD (Residential Development next to Austin Station)**

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB	Distance (m)	Distance Correction, dB	Facade Correction,	Calculated SPL, dB(A)	2015												2016		
						4	5	6	7	8	9	10	11	12	1	2	3			
<b>1) Zone 1</b>																				
Activity 5 - Superstructure	107	99	-48	3	62	62	62	62	62	62	62	62	62	62	62	62	62			
<b>2) Zone 2</b>																				
Activity 3 - Excavation																				
Zone 2.1	100	621	-64	3	39	39	39	39	39	39	39	39	39	39	39	39	39			
Zone 2.2	100	454	-61	3	42	42	42	42	42	42	42	42	42	42	42	42	42			
Zone 2.3	99	303	-58	3	44	44	44	44	44	44	44	44	44	44	44	44	44			
Zone 2.4	99	158	-52	3	50	50	50	50	50	50	50	50	50	50	50	50	50			
Zone 2.5	99	224	-55	3	47	47	47	47	47	47	47	47	47	47	47	47	47			
Zone 2.6	99	330	-58	3	44	44	44	44	44	44	44	44	44	44	44	44	44			
Zone 2.7	100	492	-62	3	41	41	41	41	41	41	41	41	41	41	41	41	41			
Zone 2.8	100	664	-64	3	39	39	39	39	39	39	39	39	39	39	39	39	39			
Activity 4 - Basement and Underpass																				
Zone 2.1	105	621	-64	3	44	44	44	44	44	44	44	44	44	44	44	44	44			
Zone 2.2	105	454	-61	3	47	47	47	47	47	47	47	47	47	47	47	47	47			
Zone 2.3	105	303	-58	3	50	50	50	50	50	50	50	50	50	50	50	50	50			
Zone 2.4	105	158	-52	3	56	56	56	56	56	56	56	56	56	56	56	56	56			
Zone 2.5	105	224	-55	3	53	53	53	53	53	53	53	53	53	53	53	53	53			
Zone 2.6	105	330	-58	3	49	49	49	49	49	49	49	49	49	49	49	49	49			
Zone 2.7	105	492	-62	3	46	46	46	46	46	46	46	46	46	46	46	46	46			
Zone 2.8	105	664	-64	3	44	44	44	44	44	44	44	44	44	44	44	44	44			
Activity 5 - Superstructure																				
Lyric Theatre	115	771	-66	3	52									52	52	52	52			
CCP	115	267	-57	3	61									61	61	61	61			
<b>3) Zone 3</b>																				
Activity 3 - Excavation																				
Activity 4 - Basement and Underpass	111	864	-67	3	48								48	48	48	48	48			
Activity 5 - Superstructure	109	822	-66	3	45												45			
<b>4) Park Construction - Zone A</b>																				
Activity 5 - Superstructure	108	1036	-68	3	43	43														
<b>5) Park Construction - Zone B</b>																				
Activity 5 - Superstructure	102	251	-56	3	49		49	49	49	49	49	49	49	49	49	49	49			
<b>6) ICC Footbridge</b>																				
Activity 5 - Superstructure	106	759	-66	3	43															
<b>7) Flyover</b>																				
Activity 5 - Superstructure	106	837	-66	3	42	42	42	42	42	42	42	42	42	42	42	42	42			
<b>8) East Concrete Batching Plant (Operation)</b>																				
Activity 5 - Superstructure	109	165	-52	3	59	59	59	59	59	59	59	59	59	59	59	59	59			
<b>9) Barging Point (BP)</b>																				
BP4	110	731	-65	3	48	48	48	48	48	48	48	48	48	48	48	48	48			
BP5	110	776	-66	3	47	47	47	47	47	47	47	47	47	47	47	47	47			
BP6	110	986	-68	3	45	45	45	45	45	45	45	45	45	45	45	45	45			
BP7	110	1086	-69	3	44	44	44	44	44	44	44	44	44	44	44	44	44			
<b>10) Modification of seawalls / construction of seawater outfalls</b>																				
Outfall of WKCD DCWS	112	701	-65	3	50				50	50	50	50	50	50	50	50	50			
Outfall of Independent Cooling System for Freespace	112	1251	-70	3	45				45	45	45	45	45	45	45	45	45			
<b>11) West Pier (Optional)</b>																				
Activity 5 - Superstructure	117	1391	-71	3	50	50	50	50	50	50	50	50	50	50	50	50	50			
<b>12) South Pier (Optional)</b>																				
Activity 5 - Superstructure	117	771	-66	3	55	55	55	55	55	55	55	55	55	55	55	55	55			
<b>13) Viewing Platform (Optional)</b>																				
Activity 5 - Superstructure	115	447	-61	3	57	57	57	57	57	57	57	57	57	57	57	57	57			
<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>Overall Cumulative Noise Level, dB(A)</b>																				
															<b>2015</b>	<b>2016</b>				
															<b>Min</b>	<b>Max</b>	<b>Min</b>	<b>Max</b>		
															<b>67</b>	<b>68</b>	<b>68</b>	<b>68</b>		
															<b>2015</b>	<b>2016</b>				
															<b>Min</b>	<b>Max</b>	<b>Min</b>	<b>Max</b>		
															<b>67</b>	<b>70</b>	<b>68</b>	<b>68</b>		

Note: Bold figure in shaded box denotes exceedance of relevant construction noise criteria  
 1) Predicted Noise Levels are referred to NSR WK12 in Appendix G of Environmental Review for Proposed West Kowloon Terminus Concrete Batching Facility.  
 2) Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.



**Mitigated Construction Noise Impact**

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

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB	Distance (m)	Distance Correction, dB	Facade Correction,	Calculated SPL, dB(A)	2015												2016		
						4	5	6	7	8	9	10	11	12	1	2	3			
<b>1) Zone 1</b>																				
Activity 5 - Superstructure	107	100	-48	3	62	62	62	62	62	62	62	62	62	62	62	62	62			
<b>2) Zone 2</b>																				
Activity 3 - Excavation																				
Zone 2.1	100	695	-65	3	38	38	38	38	38	38	38	38	38	38	38	38	38			
Zone 2.2	100	525	-62	3	41	41	41	41	41	41	41	41	41	41	41	41	41			
Zone 2.3	99	370	-59	3	43	43	43	43	43	43	43	43	43	43	43	43	43			
Zone 2.4	99	225	-55	3	47	47	47	47	47	47	47	47	47	47	47	47	47			
Zone 2.5	99	260	-56	3	46	46	46	46	46	46	46	46	46	46	46	46	46			
Zone 2.6	99	405	-60	3	42	42	42	42	42	42	42	42	42	42	42	42	42			
Zone 2.7	100	570	-63	3	40	40	40	40	40	40	40	40	40	40	40	40	40			
Zone 2.8	100	750	-66	3	38	38	38	38	38	38	38	38	38	38	38	38	38			
Activity 4 - Basement and Underpass																				
Zone 2.1	105	695	-65	3	43	43	43	43	43	43	43	43	43	43	43	43	43			
Zone 2.2	105	525	-62	3	46	46	46	46	46	46	46	46	46	46	46	46	46			
Zone 2.3	105	370	-59	3	48	48	48	48	48	48	48	48	48	48	48	48	48			
Zone 2.4	105	225	-55	3	53	53	53	53	53	53	53	53	53	53	53	53	53			
Zone 2.5	105	260	-56	3	52	52	52	52	52	52	52	52	52	52	52	52	52			
Zone 2.6	105	405	-60	3	48	48	48	48	48	48	48	48	48	48	48	48	48			
Zone 2.7	105	570	-63	3	45	45	45	45	45	45	45	45	45	45	45	45	45			
Zone 2.8	105	750	-66	3	43	43	43	43	43	43	43	43	43	43	43	43	43			
Activity 5 - Superstructure																				
Lyric Theatre	115	851	-67	3	51										51	51	51			
CCP	115	352	-59	3	59										59	59	59			
<b>3) Zone 3</b>																				
Activity 3 - Excavation																				
Activity 4 - Basement and Underpass	111	946	-68	3	47									47	47	47	47			
Activity 5 - Superstructure	109	876	-67	3	45												45			
<b>4) Park Construction - Zone A</b>																				
Activity 5 - Superstructure	108	1107	-69	3	42	42														
<b>5) Park Construction - Zone B</b>																				
Activity 5 - Superstructure	102	282	-57	3	48		48	48	48	48	48	48	48	48	48	48	48			
<b>6) ICC Footbridge</b>																				
Activity 5 - Superstructure	106	840	-66	3	42															
<b>7) Flyover</b>																				
Activity 5 - Superstructure	106	922	-67	3	41	41	41	41	41	41	41	41	41	41	41	41	41			
<b>8) East Concrete Batching Plant (Operation)</b>																				
Activity 5 - Superstructure	109	215	-55	3	57	57	57	57	57	57	57	57	57	57	57	57	57			
<b>9) Barging 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			
<b>10) Modification of seawalls / construction of seawater outfalls</b>																				
Outfall of WKCD DCWS	112	775	-66	3	49				49	49	49	49	49	49						
Outfall of Independent Cooling System for Freespace	112	1325	-70	3	44				44	44	44	44	44	44						
<b>11) West Pier (Optional)</b>																				
Activity 5 - Superstructure	112	1475	-71	3	44	44	44	44	44	44	44	44	44	44	44	44	44			
<b>12) South Pier (Optional)</b>																				
Activity 5 - Superstructure	112	845	-67	3	49	49	49	49	49	49	49	49	49	49	49	49	49			
<b>13) Viewing Platform (Optional)</b>																				
Activity 5 - Superstructure	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>																				
<b>Predicted Noise Level of Express Rail Link, dB(A)<sup>1</sup></b>																				
<b>Overall Cumulative Noise Level, dB(A)</b>																				
															2015	2016				
															Min	Max	Min	Max		
															65	66	66	66		
															<b>2016</b>					
															Min	Max	Min	Max		
															65	66	66	66		

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

- 1) Predicted Noise Levels are referred to NSR WKS in Appendix G of Environmental Review for Proposed West Kowloon Terminus Concrete Batching Facility.
- 2) Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

Mitigated Construction Noise Impact

NSR: VT1 (The Victoria Towers - Tower 1)

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB	Distance (m)	Distance Correction, dB	Facade Correction,	Calculated SPL, dB(A)	2015												2016		
						4	5	6	7	8	9	10	11	12	1	2	3			
<b>1) Zone 1</b>																				
Activity 5 - Superstructure	107	74	-45	3	65	65	65	65	65	65	65	65	65	65	65	65	65			
<b>2) Zone 2</b>																				
Activity 3 - Excavation																				
Zone 2.1	100	676	-65	3	39	39	39	39	39	39	39	39	39	39	39	39	39			
Zone 2.2	100	502	-62	3	41	41	41	41	41	41	41	41	41	41	41	41	41			
Zone 2.3	99	343	-59	3	43	43	43	43	43	43	43	43	43	43	43	43	43			
Zone 2.4	99	205	-54	3	48	48	48	48	48	48	48	48	48	48	48	48	48			
Zone 2.5	99	195	-54	3	48	48	48	48	48	48	48	48	48	48	48	48	48			
Zone 2.6	99	353	-59	3	43	43	43	43	43	43	43	43	43	43	43	43	43			
Zone 2.7	100	517	-62	3	41	41	41	41	41	41	41	41	41	41	41	41	41			
Zone 2.8	100	716	-65	3	38	38	38	38	38	38	38	38	38	38	38	38	38			
Activity 4 - Basement and Underpass																				
Zone 2.1	105	676	-65	3	44	44	44	44	44	44	44	44	44	44	44	44	44			
Zone 2.2	105	502	-62	3	46	46	46	46	46	46	46	46	46	46	46	46	46			
Zone 2.3	105	343	-59	3	49	49	49	49	49	49	49	49	49	49	49	49	49			
Zone 2.4	105	205	-54	3	54	54	54	54	54	54	54	54	54	54	54	54	54			
Zone 2.5	105	195	-54	3	54	54	54	54	54	54	54	54	54	54	54	54	54			
Zone 2.6	105	353	-59	3	49	49	49	49	49	49	49	49	49	49	49	49	49			
Zone 2.7	105	517	-62	3	46	46	46	46	46	46	46	46	46	46	46	46	46			
Zone 2.8	105	716	-65	3	43	43	43	43	43	43	43	43	43	43	43	43	43			
Activity 5 - Superstructure																				
Lyric Theatre	115	811	-66	3	51										51	51	51			
CCP	115	312	-58	3	60										60	60	60			
<b>3) Zone 3</b>																				
Activity 3 - Excavation																				
Activity 4 - Basement and Underpass	111	917	-67	3	47									47	47	47	47			
Activity 5 - Superstructure	109	855	-67	3	45												45			
<b>4) Park Construction - Zone A</b>																				
Activity 5 - Superstructure	108	1042	-68	3	43	43														
<b>5) Park Construction - Zone B</b>																				
Activity 5 - Superstructure	102	178	-53	3	52		52	52	52	52	52	52	52	52	52	52	52			
<b>6) ICC Footbridge</b>																				
Activity 5 - Superstructure	106	827	-66	3	42															
<b>7) Flyover</b>																				
Activity 5 - Superstructure	106	914	-67	3	41	41	41	41	41	41	41	41	41	41	41	41	41			
<b>8) East Concrete Batching Plant (Operation)</b>																				
Activity 5 - Superstructure	109	158	-52	3	60	60	60	60	60	60	60	60	60	60	60	60	60			
<b>9) Barging 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>10) Modification of seawalls / construction of seawater outfalls</b>																				
Outfall of WKCD DCWS	112	726	-65	3	49				49	49	49	49	49	49						
Outfall of Independent Cooling System for Freespace	112	1251	-70	3	45				45	45	45	45	45	45						
<b>11) West Pier (Optional)</b>																				
Activity 5 - Superstructure	112	1451	-71	3	44	44	44	44	44	44	44	44	44	44	44	44	44			
<b>12) South Pier (Optional)</b>																				
Activity 5 - Superstructure	112	786	-66	3	49	49	49	49	49	49	49	49	49	49	49	49	49			
<b>13) Viewing Platform (Optional)</b>																				
Activity 5 - Superstructure	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>Overall Cumulative Noise Level, dB(A)</b>																				
															2015	2016	2015	2016		
															Min	Max	Min	Max		
															67	68	68	68		
															2015	2016	2015	2016		
															Min	Max	Min	Max		
															68	68	68	68		

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

- 1) Predicted Noise Levels are referred to NSR WK6 in Appendix G of Environmental Review for Proposed West Kowloon Terminus Concrete Batching Facility.
- 2) Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

Mitigated Construction Noise Impact

NSR: VT2 (The Victoria Towers - Tower 2)

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB	Distance (m)	Distance Correction, dB	Facade Correction,	Calculated SPL, dB(A)	2015												2016		
						4	5	6	7	8	9	10	11	12	1	2	3			
<b>1) Zone 1</b>																				
Activity 5 - Superstructure	107	78	-46	3	64	64	64	64	64	64	64	64	64	64	64	64	64			
<b>2) Zone 2</b>																				
Activity 3 - Excavation																				
Zone 2.1	100	701	-65	3	38	38	38	38	38	38	38	38	38	38	38	38	38			
Zone 2.2	100	527	-62	3	41	41	41	41	41	41	41	41	41	41	41	41	41			
Zone 2.3	99	367	-59	3	43	43	43	43	43	43	43	43	43	43	43	43	43			
Zone 2.4	99	214	-55	3	47	47	47	47	47	47	47	47	47	47	47	47	47			
Zone 2.5	99	214	-55	3	47	47	47	47	47	47	47	47	47	47	47	47	47			
Zone 2.6	99	377	-60	3	42	42	42	42	42	42	42	42	42	42	42	42	42			
Zone 2.7	100	547	-63	3	41	41	41	41	41	41	41	41	41	41	41	41	41			
Zone 2.8	100	736	-65	3	38	38	38	38	38	38	38	38	38	38	38	38	38			
Activity 4 - Basement and Underpass																				
Zone 2.1	105	701	-65	3	43	43	43	43	43	43	43	43	43	43	43	43	43			
Zone 2.2	105	527	-62	3	46	46	46	46	46	46	46	46	46	46	46	46	46			
Zone 2.3	105	367	-59	3	49	49	49	49	49	49	49	49	49	49	49	49	49			
Zone 2.4	105	214	-55	3	53	53	53	53	53	53	53	53	53	53	53	53	53			
Zone 2.5	105	214	-55	3	53	53	53	53	53	53	53	53	53	53	53	53	53			
Zone 2.6	105	377	-60	3	48	48	48	48	48	48	48	48	48	48	48	48	48			
Zone 2.7	105	547	-63	3	45	45	45	45	45	45	45	45	45	45	45	45	45			
Zone 2.8	105	736	-65	3	43	43	43	43	43	43	43	43	43	43	43	43	43			
Activity 5 - Superstructure																				
Lyric Theatre	115	841	-66	3	51										51	51	51			
CCP	115	342	-59	3	59										59	59	59			
<b>3) Zone 3</b>																				
Activity 3 - Excavation																				
Activity 4 - Basement and Underpass	111	939	-67	3	47									47	47	47	47			
Activity 5 - Superstructure	109	875	-67	3	45												45			
<b>4) Park Construction - Zone A</b>																				
Activity 5 - Superstructure																				
4) Park Construction - Zone A	108	1068	-69	3	43	43														
<b>5) Park Construction - Zone B</b>																				
Activity 5 - Superstructure																				
5) Park Construction - Zone B	102	223	-55	3	50			50	50	50	50	50	50	50	50	50	50			
<b>6) ICC Footbridge</b>																				
Activity 5 - Superstructure																				
6) ICC Footbridge	106	846	-67	3	42															
<b>7) Flyover</b>																				
Activity 5 - Superstructure																				
7) Flyover	106	930	-67	3	41	41	41	41	41	41	41	41	41	41	41	41	41			
<b>8) East Concrete Batching Plant (Operation)</b>																				
Activity 5 - Superstructure																				
8) East Concrete Batching Plant (Operation)	109	183	-53	3	58	58	58	58	58	58	58	58	58	58	58	58	58			
<b>9) Barging Point (BP)</b>																				
Activity 5 - Superstructure																				
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			
<b>10) Modification of seawalls / construction of seawater outfalls</b>																				
Activity 5 - Superstructure																				
Outfall of WKCD DCWS	112	751	-66	3	49				49	49	49	49	49	49						
Outfall of Independent Cooling System for Freespace	112	1301	-70	3	44				44	44	44	44	44	44						
<b>11) West Pier (Optional)</b>																				
Activity 5 - Superstructure																				
11) West Pier (Optional)	112	1471	-71	3	44	44	44	44	44	44	44	44	44	44	44	44	44			
<b>12) South Pier (Optional)</b>																				
Activity 5 - Superstructure																				
12) South Pier (Optional)	112	816	-66	3	49	49	49	49	49	49	49	49	49	49	49	49	49			
<b>13) Viewing Platform (Optional)</b>																				
Activity 5 - Superstructure																				
13) Viewing Platform (Optional)	108	462	-61	3	50	50	50	50	50	50	50	50	50	50	50	50	50			
<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>Overall Cumulative Noise Level, dB(A)</b>																				
															Min	Max	Min	Max		
															67	68	67	68		
															<b>2015</b>		<b>2016</b>			
															67	68	67	68		
															Min	Max	Min	Max		
															67	68	67	68		

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

- 1) Predicted Noise Levels are referred to NSR WK6 in Appendix G of Environmental Review for Proposed West Kowloon Terminus Concrete Batching Facility.
- 2) Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

**Mitigated Construction Noise Impact**

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

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB	Distance (m)	Distance Correction, dB	Facade Correction,	Calculated SPL, dB(A)	2015												2016		
						4	5	6	7	8	9	10	11	12	1	2	3			
<b>1) Zone 1</b>																				
Activity 5 - Superstructure	107	105	-48	3	62	62	62	62	62	62	62	62	62	62	62	62	62			
<b>2) Zone 2</b>																				
Activity 3 - Excavation																				
Zone 2.1	100	685	-65	3	39	39	39	39	39	39	39	39	39	39	39	39	39			
Zone 2.2	100	505	-62	3	41	41	41	41	41	41	41	41	41	41	41	41	41			
Zone 2.3	99	355	-59	3	43	43	43	43	43	43	43	43	43	43	43	43	43			
Zone 2.4	99	205	-54	3	48	48	48	48	48	48	48	48	48	48	48	48	48			
Zone 2.5	99	195	-54	3	48	48	48	48	48	48	48	48	48	48	48	48	48			
Zone 2.6	99	350	-59	3	43	43	43	43	43	43	43	43	43	43	43	43	43			
Zone 2.7	100	515	-62	3	41	41	41	41	41	41	41	41	41	41	41	41	41			
Zone 2.8	100	720	-65	3	38	38	38	38	38	38	38	38	38	38	38	38	38			
Activity 4 - Basement and Underpass																				
Zone 2.1	105	685	-65	3	44	44	44	44	44	44	44	44	44	44	44	44	44			
Zone 2.2	105	505	-62	3	46	46	46	46	46	46	46	46	46	46	46	46	46			
Zone 2.3	105	355	-59	3	49	49	49	49	49	49	49	49	49	49	49	49	49			
Zone 2.4	105	205	-54	3	54	54	54	54	54	54	54	54	54	54	54	54	54			
Zone 2.5	105	195	-54	3	54	54	54	54	54	54	54	54	54	54	54	54	54			
Zone 2.6	105	350	-59	3	49	49	49	49	49	49	49	49	49	49	49	49	49			
Zone 2.7	105	515	-62	3	46	46	46	46	46	46	46	46	46	46	46	46	46			
Zone 2.8	105	720	-65	3	43	43	43	43	43	43	43	43	43	43	43	43	43			
Activity 5 - Superstructure																				
Lyric Theatre	115	816	-66	3	51										51	51	51			
CCP	115	327	-58	3	59										59	59	59			
<b>3) Zone 3</b>																				
Activity 3 - Excavation																				
Activity 4 - Basement and Underpass	111	923	-67	3	47								47	47	47	47	47			
Activity 5 - Superstructure	109	863	-67	3	45												45			
<b>4) Park Construction - Zone A</b>																				
Activity 5 - Superstructure	108	1046	-68	3	43	43														
<b>5) Park Construction - Zone B</b>																				
Activity 5 - Superstructure	102	150	-51	3	54		54	54	54	54	54	54	54	54	54	54	54			
<b>6) ICC Footbridge</b>																				
Activity 5 - Superstructure	106	843	-67	3	42															
<b>7) Flyover</b>																				
Activity 5 - Superstructure	106	927	-67	3	41	41	41	41	41	41	41	41	41	41	41	41	41			
<b>8) East Concrete Batching Plant (Operation)</b>																				
Activity 5 - Superstructure	109	160	-52	3	60	60	60	60	60	60	60	60	60	60	60	60	60			
<b>9) Barging 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>10) Modification of seawalls / construction of seawater outfalls</b>																				
Outfall of WKCD DCWS	112	720	-65	3	49				49	49	49	49	49	49						
Outfall of Independent Cooling System for Freespace	112	1250	-70	3	45				45	45	45	45	45	45						
<b>11) West Pier (Optional)</b>																				
Activity 5 - Superstructure	112	1455	-71	3	44	44	44	44	44	44	44	44	44	44	44	44	44			
<b>12) South Pier (Optional)</b>																				
Activity 5 - Superstructure	112	780	-66	3	49	49	49	49	49	49	49	49	49	49	49	49	49			
<b>13) Viewing Platform (Optional)</b>																				
Activity 5 - Superstructure	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>Overall Cumulative Noise Level, dB(A)</b>																				
															2015	2016				
															Min	Max	Min	Max		
															66	67	67	67		
															2015		2016			
															Min	Max	Min	Max		
															66	67	67	67		

Note: Bold figure in shaded box denotes exceedance of relevant construction noise criteria  
 1) Predicted Noise Levels are referred to NSR WK7 in Appendix G of Environmental Review for Proposed West Kowloon Terminus Concrete Batching Facility.  
 2) Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

Mitigated Construction Noise Impact

NSR: CRGPS (Canton Road Government Primary School)

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB	Distance (m)	Distance Correction, dB	Facade Correction,	Calculated SPL, dB(A)	2015												2016		
						4	5	6	7	8	9	10	11	12	1	2	3			
<b>1) Zone 1</b>																				
Activity 5 - Superstructure	107	120	-50	3	60	60	60	60	60	60	60	60	60	60	60	60	60			
<b>2) Zone 2</b>																				
Activity 3 - Excavation																				
Zone 2.1	100	680	-65	3	39	39	39	39	39	39	39	39	39	39	39	39	39			
Zone 2.2	100	520	-62	3	41	41	41	41	41	41	41	41	41	41	41	41	41			
Zone 2.3	99	360	-59	3	43	43	43	43	43	43	43	43	43	43	43	43	43			
Zone 2.4	99	220	-55	3	47	47	47	47	47	47	47	47	47	47	47	47	47			
Zone 2.5	99	195	-54	3	48	48	48	48	48	48	48	48	48	48	48	48	48			
Zone 2.6	99	355	-59	3	43	43	43	43	43	43	43	43	43	43	43	43	43			
Zone 2.7	100	520	-62	3	41	41	41	41	41	41	41	41	41	41	41	41	41			
Zone 2.8	100	720	-65	3	38	38	38	38	38	38	38	38	38	38	38	38	38			
Activity 4 - Basement and Underpass																				
Zone 2.1	105	680	-65	3	44	44	44	44	44	44	44	44	44	44	44	44	44			
Zone 2.2	105	520	-62	3	46	46	46	46	46	46	46	46	46	46	46	46	46			
Zone 2.3	105	360	-59	3	49	49	49	49	49	49	49	49	49	49	49	49	49			
Zone 2.4	105	220	-55	3	53	53	53	53	53	53	53	53	53	53	53	53	53			
Zone 2.5	105	195	-54	3	54	54	54	54	54	54	54	54	54	54	54	54	54			
Zone 2.6	105	355	-59	3	49	49	49	49	49	49	49	49	49	49	49	49	49			
Zone 2.7	105	520	-62	3	46	46	46	46	46	46	46	46	46	46	46	46	46			
Zone 2.8	105	720	-65	3	43	43	43	43	43	43	43	43	43	43	43	43	43			
Activity 5 - Superstructure																				
Lyric Theatre	115	816	-66	3	51									51	51	51	51			
CCP	115	342	-59	3	59									59	59	59	59			
<b>3) Zone 3</b>																				
Activity 3 - Excavation																				
Activity 4 - Basement and Underpass	111	926	-67	3	47								47	47	47	47	47			
Activity 5 - Superstructure	109	866	-67	3	45												45			
4) Park Construction - Zone A	108	1065	-69	3	43	43														
5) Park Construction - Zone B	102	146	-51	3	54		54	54	54	54	54	54	54	54	54	54	54			
6) ICC Footbridge	106	847	-67	3	42															
7) Flyover	106	933	-67	3	41	41	41	41	41	41	41	41	41	41	41	41	41			
8) East Concrete Batching Plant (Operation)	109	170	-53	3	59	59	59	59	59	59	59	59	59	59	59	59	59			
<b>9) Barging 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			
<b>10) Modification of seawalls / construction of seawater outfalls</b>																				
Outfall of WKCD DCWS	112	750	-66	3	49				49	49	49	49	49	49	49					
Outfall of Independent Cooling System for Freespace	112	1250	-70	3	45				45	45	45	45	45	45	45					
11) West Pier (Optional)	112	1455	-71	3	44	44	44	44	44	44	44	44	44	44	44	44	44			
12) South Pier (Optional)	112	775	-66	3	49	49	49	49	49	49	49	49	49	49	49	49	49			
13) Viewing Platform (Optional)	108	400	-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>Overall Cumulative Noise Level, dB(A)</b>																				
															2015	2016	2015	2016		
															Min	Max	Min	Max		
															65	67	66	67		
															<b>2016</b>					
															Min	Max	Min	Max		
															65	67	66	67		

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

- 1) Predicted Noise Levels are referred to NSR WK7 in Appendix G of Environmental Review for Proposed West Kowloon Terminus Concrete Batching Facility.
- 2) Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

Mitigated Construction Noise Impact

NSR: FQ (Fire Services Department Staff Quarter)

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB	Distance (m)	Distance Correction, dB	Facade Correction,	Calculated SPL, dB(A)	2015												2016		
						4	5	6	7	8	9	10	11	12	1	2	3			
<b>1) Zone 1</b>																				
Activity 5 - Superstructure	107	82	-46	3	64	64	64	64	64	64	64	64	64	64	64	64	64			
<b>2) Zone 2</b>																				
Activity 3 - Excavation																				
Zone 2.1	100	580	-63	3	40	40	40	40	40	40	40	40	40	40	40	40	40			
Zone 2.2	100	415	-60	3	43	43	43	43	43	43	43	43	43	43	43	43	43			
Zone 2.3	99	256	-56	3	46	46	46	46	46	46	46	46	46	46	46	46	46			
Zone 2.4	99	112	-49	3	53	53	53	53	53	53	53	53	53	53	53	53	53			
Zone 2.5	99	97	-48	3	54	54	54	54	54	54	54	54	54	54	54	54	54			
Zone 2.6	99	251	-56	3	46	46	46	46	46	46	46	46	46	46	46	46	46			
Zone 2.7	100	411	-60	3	43	43	43	43	43	43	43	43	43	43	43	43	43			
Zone 2.8	100	610	-64	3	40	40	40	40	40	40	40	40	40	40	40	40	40			
Activity 4 - Basement and Underpass																				
Zone 2.1	105	580	-63	3	45	45	45	45	45	45	45	45	45	45	45	45	45			
Zone 2.2	105	415	-60	3	48	48	48	48	48	48	48	48	48	48	48	48	48			
Zone 2.3	105	256	-56	3	52	52	52	52	52	52	52	52	52	52	52	52	52			
Zone 2.4	105	112	-49	3	59	59	59	59	59	59	59	59	59	59	59	59	59			
Zone 2.5	105	97	-48	3	60	60	60	60	60	60	60	60	60	60	60	60	60			
Zone 2.6	105	251	-56	3	52	52	52	52	52	52	52	52	52	52	52	52	52			
Zone 2.7	105	411	-60	3	48	48	48	48	48	48	48	48	48	48	48	48	48			
Zone 2.8	105	610	-64	3	45	45	45	45	45	45	45	45	45	45	45	45	45			
Activity 5 - Superstructure																				
Lyric Theatre	115	716	-65	3	53									53	53	53	53			
CCP	115	233	-55	3	62									62	62	62	62			
<b>3) Zone 3</b>																				
Activity 3 - Excavation																				
Activity 4 - Basement and Underpass	111	824	-66	3	48									48	48	48	48			
Activity 5 - Superstructure	109	761	-66	3	46												46			
<b>4) Park Construction - Zone A</b>																				
Activity 5 - Superstructure																				
4) Park Construction - Zone A	108	996	-68	3	43	43														
<b>5) Park Construction - Zone B</b>																				
Activity 5 - Superstructure																				
5) Park Construction - Zone B	102	72	-45	3	60		60	60	60	60	60	60	60	60	60	60	60			
<b>6) ICC Footbridge</b>																				
Activity 5 - Superstructure																				
6) ICC Footbridge	106	744	-65	3	43															
<b>7) Flyover</b>																				
Activity 5 - Superstructure																				
7) Flyover	106	828	-66	3	42	42	42	42	42	42	42	42	42	42	42	42	42			
<b>8) East Concrete Batching Plant (Operation)</b>																				
Activity 5 - Superstructure																				
8) East Concrete Batching Plant (Operation)	109	65	-44	3	67	67	67	67	67	67	67	67	67	67	67	67	67			
<b>9) Barging Point (BP)</b>																				
Activity 5 - Superstructure																				
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>10) Modification of seawalls / construction of seawater outfalls</b>																				
Activity 5 - Superstructure																				
Outfall of WKCD DCWS	112	625	-64	3	51				51	51	51	51	51	51	51	51	51			
Outfall of Independent Cooling System for Freespace	112	1170	-69	3	45				45	45	45	45	45	45	45	45	45			
<b>11) West Pier (Optional)</b>																				
Activity 5 - Superstructure																				
11) West Pier (Optional)	112	1350	-71	3	45	45	45	45	45	45	45	45	45	45	45	45	45			
<b>12) South Pier (Optional)</b>																				
Activity 5 - Superstructure																				
12) South Pier (Optional)	112	680	-65	3	51	51	51	51	51	51	51	51	51	51	51	51	51			
<b>13) Viewing Platform (Optional)</b>																				
Activity 5 - Superstructure																				
13) 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>Overall Cumulative Noise Level, dB(A)</b>																				
															2015	2016				
															Min	Max	Min	Max		
															71	71	72	72		
															2015	2016				
															Min	Max	Min	Max		
															71	71	71	71		

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

- 1) Predicted Noise Levels are referred to NSR WK7a in Appendix G of Environmental Review for Proposed West Kowloon Terminus Concrete Batching Facility.
- 2) Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

Mitigated Construction Noise Impact

NSR: CUL (The Cullirian I)

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB	Distance (m)	Distance Correction, dB	Facade Correction,	Calculated SPL, dB(A)	2015												2016		
						4	5	6	7	8	9	10	11	12	1	2	3			
<b>1) Zone 1</b>																				
Activity 5 - Superstructure	107	681	-65	3	45	45	45	45	45	45	45	45	45	45	45	45	45			
<b>2) Zone 2</b>																				
Activity 3 - Excavation																				
Zone 2.1	100	829	-66	3	37	37	37	37	37	37	37	37	37	37	37	37	37			
Zone 2.2	100	659	-64	3	39	39	39	39	39	39	39	39	39	39	39	39	39			
Zone 2.3	99	499	-62	3	40	40	40	40	40	40	40	40	40	40	40	40	40			
Zone 2.4	99	350	-59	3	43	43	43	43	43	43	43	43	43	43	43	43	43			
Zone 2.5	99	345	-59	3	43	43	43	43	43	43	43	43	43	43	43	43	43			
Zone 2.6	99	501	-62	3	40	40	40	40	40	40	40	40	40	40	40	40	40			
Zone 2.7	100	672	-65	3	39	39	39	39	39	39	39	39	39	39	39	39	39			
Zone 2.8	100	866	-67	3	37	37	37	37	37	37	37	37	37	37	37	37	37			
Activity 4 - Basement and Underpass																				
Zone 2.1	105	828	-66	3	42	42	42	42	42	42	42	42	42	42	42	42	42			
Zone 2.2	105	659	-64	3	44	44	44	44	44	44	44	44	44	44	44	44	44			
Zone 2.3	105	498	-62	3	46	46	46	46	46	46	46	46	46	46	46	46	46			
Zone 2.4	105	348	-59	3	49	49	49	49	49	49	49	49	49	49	49	49	49			
Zone 2.5	105	344	-59	3	49	49	49	49	49	49	49	49	49	49	49	49	49			
Zone 2.6	105	500	-62	3	46	46	46	46	46	46	46	46	46	46	46	46	46			
Zone 2.7	105	672	-65	3	44	44	44	44	44	44	44	44	44	44	44	44	44			
Zone 2.8	105	865	-67	3	41	41	41	41	41	41	41	41	41	41	41	41	41			
Activity 5 - Superstructure																				
Lyric Theatre	115	471	-61	3	56									56	56	56	56			
CCP	115	526	-62	3	55									55	55	55	55			
<b>3) Zone 3</b>																				
Activity 3 - Excavation																				
Activity 4 - Basement and Underpass	111	376	-59	3	55								55	55	55	55	55			
Activity 5 - Superstructure	109	329	-58	3	53												53			
4) Park Construction - Zone A	108	675	-65	3	47	47														
5) Park Construction - Zone B	102	433	-61	3	44		44	44	44	44	44	44	44	44	44	44	44			
6) ICC Footbridge	106	272	-57	3	52															
7) Flyover	106	317	-58	3	51	51	51	51	51	51	51	51	51	51	51	51	51			
8) East Concrete Batching Plant (Operation)	109	703	-65	3	47	47	47	47	47	47	47	47	47	47	47	47	47			
<b>9) Barging Point (BP)</b>																				
BP4	110	451	-61	3	52	52	52	52	52	52	52	52	52	52	52	52	52			
BP5	110	461	-61	3	52	52	52	52	52	52	52	52	52	52	52	52	52			
BP6	110	611	-64	3	49	49	49	49	49	49	49	49	49	49	49	49	49			
BP7	110	726	-65	3	48	48	48	48	48	48	48	48	48	48	48	48	48			
<b>10) Modification of seawalls / construction of seawater outfalls</b>																				
Outfall of WKCD DCWS	112	561	-63	3	52				52	52	52	52	52	52	52					
Outfall of Independent Cooling System for Freespace	112	886	-67	3	48				48	48	48	48	48	48	48					
11) West Pier (Optional)	112	826	-66	3	49	49	49	49	49	49	49	49	49	49	49	49	49			
12) South Pier (Optional)	112	476	-62	3	54	54	54	54	54	54	54	54	54	54	54	54	54			
13) Viewing Platform (Optional)	108	561	-63	3	48	48	48	48	48	48	48	48	48	48	48	48	48			
<b>Predicted Noise Level of this Project, dB (A)</b>						62	62	62	62	62	63	63	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 Improvement Works in West Kowloon Reclamation, dB(A)<sup>3</sup></b>						73	73	70	67	56	56									
<b>Overall Cumulative Noise Level, dB(A)</b>						73	73	71	68	63	64	63	64	64	64	64	64	64		
															<b>2015</b>		<b>2016</b>			
															Min	Max	Min	Max		
															<b>2015</b>		<b>2016</b>			
															Min	Max	Min	Max		

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.
- Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

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 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 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	
<b>Activity 5 - Superstructure</b>									
Crane, mobile		EPD-01516	101	1	50%	-5	Movable Barrier	93	
Crane Lorry 5.5 tonne < gross vehicle weight =< 38 tonne		[1]	105	1	50%	-5	Movable Barrier	97	
Concrete pump, stationary/ lorry mounted		CNP 047	109	1	50%	-10	Movable Barrier	96	
Poker, vibratory, hand-held (electric)		[1]	102	5	50%	-10	Movable Barrier	96	
Bar bender and cutter (electric)		CNP 021	90	1	50%	-10	Movable Barrier	77	
Generator, super silenced, 70 dB(A) at 7 m		CNP 103	95	2	100%	-15	Enclosure	83	
Concrete lorry mixer		CNP 044	109	1	50%	-5	Movable Barrier	101	
Drill/grinder, hand-held (electric)		CNP 065	98	2	30%	-10	Movable Barrier	86	
Water pump (electric)		CNP 281	88	2	30%	-15	Enclosure	71	
Excavator, wheeled/tracked		EPD-01230	99	2	30%	-5	Movable Barrier	92	
Fork Lift Truck	[2]	104	2	30%	-5	Movable Barrier	97		
Hoist, passenger/ material (electric)	CNP 122	95	2	30%			93		
Total SWL, dB (A)								106	
2b	<b>Zone 2 (for area with more plant) [3]</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)								106
	<b>Activity 5 - Superstructure</b>								
	Crane, tower (electric)	CNP 049	95	1	50%			92	
	Crane, mobile	EPD-01516	101	1	50%	-5	Movable Barrier	93	
	Crane Lorry 5.5 tonne < gross vehicle weight =< 38 tonne	[1]	105	1	50%	-5	Movable Barrier	97	
	Concrete pump, stationary/ lorry mounted	CNP 047	109	1	50%	-10	Movable Barrier	96	
	Poker, vibratory, hand-held (electric)	[1]	102	5	50%	-10	Movable Barrier	96	
	Bar bender and cutter (electric)	CNP 021	90	1	50%	-10	Movable Barrier	77	
	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	1	50%	-5	Movable Barrier	101		
Drill/grinder, hand-held (electric)	CNP 065	98	3	30%	-10	Movable Barrier	88		
Water pump (electric)	CNP 281	88	2	30%	-15	Enclosure	71		
Excavator, wheeled/tracked	EPD-01230	99	2	30%	-5	Movable Barrier	92		
Fork Lift Truck	[2]	104	2	30%	-5	Movable Barrier	97		
Hoist, passenger/ material (electric)	CNP 122	95	2	30%			93		
Total SWL, dB (A)								106	
3	<b>Zone 3</b>								
	<b>Activity 4 - Basement and Underpass</b>								
	Crane, tower (electric)	CNP 049	95	2	60%			96	
	Crane, mobile	EPD-01516	101	4	60%	-5	Movable Barrier	100	
	Crane Lorry 5.5 tonne < gross vehicle weight =< 38 tonne	[1]	105	4	60%	-5	Movable Barrier	104	
	Concrete pump, stationary/ lorry mounted	CNP 047	109	4	60%	-10	Movable Barrier	103	
	Poker, vibratory, hand-held (electric)	[1]	102	20	60%	-10	Movable Barrier	103	
	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	
	Air compressor, air flow > 30m3/min	CNP 003	104	2	100%	-15	Enclosure	92	
	Concrete lorry mixer	CNP 044	109	4	60%	-5	Movable Barrier	108	
	Total SWL, dB (A)								111



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 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	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	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	6	30%	-10	Movable Barrier	91
	Water pump (electric)	CNP 281	88	4	30%	-15	Enclosure	74
	Excavator, wheeled/tracked	EPD-01230	99	4	30%	-5	Movable Barrier	95
	Fork Lift Truck	[2]	104	4	30%	-5	Movable Barrier	100
	Hoist, passenger/ material (electric)	CNP 122	95	4	30%			96
							Total SWL, dB (A)	<b>109</b>
<b>4 Zone 4</b>								
<b>Activity 1 - D Walling</b>								
	Crane, mobile	EPD-01516	101	6	60%	-5	Movable Barrier	102
	Air compressor, air flow > 30m3/min	CNP 003	104	6	100%	-15	Enclosure	97
	Piling, diaphragm wall, hydraulic extractor	CNP 163	90	3	60%	-10	Fabric	83
	Excavator, wheeled/tracked	EPD-01230	99	6	60%	-5	Movable Barrier	100
	Grout Mixer	[1]	90	3	60%	-10	Movable Barrier	83
	Water pump, submersible (electric)	CNP 283	85	4	60%	-15	Enclosure	74
	Dump truck, 5.5 tonne < gross vehicle weight =< 38 tonne	[1]	105	3	30%	-5	Movable Barrier	100
	Concrete lorry mixer	CNP 044	109	3	60%	-5	Movable Barrier	107
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	3	100%	-15	Enclosure	85
							Total SWL, dB (A)	<b>109</b>
<b>Activity 2 - Bored Piling</b>								
	Crane, mobile	EPD-01516	101	6	60%	-5	Movable Barrier	102
	Excavator/ loader, wheeled/ tracked	CNP 081	112	6	30%	-5	Movable Barrier	110
	Piling Rig	[2]	112	6	60%	-10	Fabric	108
	Drill Rig	[1]	110	6	60%	-10	Fabric	106
	Excavator/ loader, wheeled/ tracked	CNP 081	112	6	60%	-5	Movable Barrier	113
	Piling, large diameter bored, grab and chisel	CNP 164	115	6	60%	-10	Fabric	111
	Piling, large diameter bored, reverse circulation drill	CNP 166	100	6	60%	-10	Fabric	96
	Piling, large diameter bored, oscillator	CNP 165	115	6	60%	-10	Fabric	111
	Air compressor, air flow > 30m3/min	CNP 003	104	6	100%	-15	Enclosure	97
	Grout Mixer	[1]	90	6	60%	-10	Movable Barrier	86
	Grout Pump	[1]	105	6	60%	-10	Movable Barrier	101
	Bar bender and cutter (electric)	CNP 021	90	6	60%	-10	Movable Barrier	86
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	6	100%	-10	Enclosure	93
	Dump truck	CNP 067	117	3	30%	-5	Movable Barrier	112
	Concrete lorry mixer	CNP 044	109	3	60%	-5	Movable Barrier	107
	Welding Set	[2]	78	6	60%	-10	Movable Barrier	74
							Total SWL, dB (A)	<b>119</b>
<b>Activity 3 - Excavation</b>								
	Crane, mobile	EPD-01516	101	6	60%	-5	Movable Barrier	102
	Air compressor, air flow > 30m3/min	CNP 003	104	6	100%	-15	Enclosure	97
	Excavator/ loader, wheeled/ tracked	CNP 081	112	6	60%	-5	Movable Barrier	113
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	6	100%	-15	Enclosure	88
	Dump truck	CNP 067	117	9	30%	-5	Movable Barrier	116
							Total SWL, dB (A)	<b>118</b>
<b>Activity 4 - Basement</b>								
	Crane, tower (electric)	CNP 049	95	4	60%	-5	Movable Barrier	94
	Crane, mobile	EPD-01516	101	8	60%	-5	Movable Barrier	103
	Crane Lorry 5.5 tonne < gross vehicle weight =< 38 tonne	[1]	105	8	60%	-5	Movable Barrier	107
	Concrete pump, stationary/ lorry mounted	CNP 047	109	8	60%	-10	Movable Barrier	106
	Poker, vibratory, hand-held (electric)	[1]	102	40	60%	-10	Movable Barrier	106
	Bar bender and cutter (electric)	CNP 021	90	8	60%	-10	Movable Barrier	87
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	8	100%	-15	Enclosure	89
	Air compressor, air flow > 30m3/min	CNP 003	104	4	100%	-10	Movable Barrier	100
	Concrete lorry mixer	CNP 044	109	8	60%	-5	Movable Barrier	111
							Total SWL, dB (A)	<b>114</b>
<b>5 Park Construction - Zone B</b>								
	Dump truck, 5.5 tonne < gross vehicle weight =< 38 tonne	[1]	105	1	60%	-5	Movable Barrier	98
	Crane, mobile	EPD-01516	101	1	60%	-5	Movable Barrier	94
	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
	Lorry, 5.5 tonne < gross vehicle weight =< 38 tonne	[1]	105	1	60%	-5	Movable Barrier	98
							Total SWL, dB (A)	<b>102</b>
<b>6 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>

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)	
7/9	<b>East / West 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)	109
	<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)	109
								Maximum SWL, dB (A)	109
	8	<b>East Concrete Batching Plant (Demolition)</b>							
		Crane, mobile	EPD-01516	101	2	60%	-5	Movable Barrier	97
		Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	2	60%	-15	Enclosure	81
		Welding set	[2]	78	2	60%	-10	Movable Barrier	69
							Total SWL, dB (A)	97	
10	<b>West Concrete Batching Plant (Construction)</b>								
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	4	60%	-15	Enclosure	84	
	Excavator, wheeled/tracked	EPD-01230	99	2	60%	-5	Movable Barrier	95	
	Crane, mobile	EPD-01516	101	2	60%	-5	Movable Barrier	97	
	Dump truck, 5.5 tonne < gross vehicle weight <= 38 tonne	[1]	105	2	30%	-5	Movable Barrier	98	
	Poker, vibratory, hand-held (electric)	[1]	102	4	60%	-10	Movable Barrier	96	
	Breaker, hand-held, mass > 35kg	CNP 026	114	1	30%	-10	Movable Barrier	99	
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	2	60%	-15	Enclosure	88	
	Concrete lorry mixer	CNP 044	109	2	60%	-5	Movable Barrier	105	
								Total SWL, dB (A)	107
11	<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)	110	
12/13	<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	EPD-01516	101	1	60%	-5	Movable Barrier	94	
	Tug boat	CNP 221	110	1	60%			108	
								Total SWL, dB (A)	108
	<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%	-15	Enclosure	79	
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	2	100%	-15	Enclosure	83	
	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)	112
	<b>Group 3</b>								
	Crane, mobile	EPD-01516	101	1	60%	-5	Movable Barrier	94	
	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%	-15	Enclosure	83	
	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)	111
								Maximum SWL, dB (A)	112
	14	<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)	108	
<b>Group 2</b>									
Crane, mobile		EPD-01516	101	2	100%			104	
							Total SWL, dB (A)	104	
							Maximum SWL, dB (A)	108	

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.

**Mitigated Construction Noise Impact**

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

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB	Distance (m)	Distance Correction, dB	Facade Correction,	Calculated SPL,	2016												2017		
						4	5	6	7	8	9	10	11	12	1	2	3			
<b>1) Zone 1</b>																				
Activity 5 - Superstructure	108	481	-62	3	50	50														
<b>2) Zone 2</b>																				
Activity 4 - Basement and Underpass																				
Zone 2.1	106	116	-49	3	59	59	59	59	59	59	59	59	59	59	59	59	59			
Zone 2.2	106	102	-48	3	60	60	60	60	60	60	60	60	60	60	60	60	60			
Zone 2.3	105	203	-54	3	54	54	54	54	54	54	54	54	54	54	54	54	54			
Zone 2.4	105	357	-59	3	49	49	49	49	49	49	49	49	49	49	49	49	49			
Zone 2.5	105	377	-60	3	49	49	49	49	49	49	49	49	49	49	49	49	49			
Zone 2.6	105	258	-56	3	52	52	52	52	52	52	52	52	52	52	52	52	52			
Zone 2.7	106	179	-53	3	56	56	56	56	56	56	56	56	56	56	56	56	56			
Zone 2.8	106	228	-55	3	53	53	53	53	53	53	53	53	53	53	53	53	53			
Activity 5 - Superstructure																				
Zone 2.1	106	116	-49	3	60	60	60	60	60	60	60	60	60	60	60	60	60			
Zone 2.2	106	102	-48	3	61	61	61	61	61	61	61	61	61	61	61	61	61			
Zone 2.3	106	203	-54	3	54	54	54	54	54	54	54	54	54	54	54	54	54			
Zone 2.4	106	357	-59	3	50	50	50	50	50	50	50	50	50	50	50	50	50			
Zone 2.5	106	377	-60	3	49	49	49	49	49	49	49	49	49	49	49	49	49			
Zone 2.6	106	258	-56	3	52	52	52	52	52	52	52	52	52	52	52	52	52			
Zone 2.7	106	179	-53	3	56	56	56	56	56	56	56	56	56	56	56	56	56			
Zone 2.8	106	228	-55	3	54	54	54	54	54	54	54	54	54	54	54	54	54			
<b>3) Zone 3</b>																				
Activity 4 - Basement and Underpass																				
Activity 5 - Superstructure	109	248	-56	3	59	59	59	59												
<b>4) Zone 4</b>																				
Activity 1 - D Walling																				
Activity 2 - Bored Piling	119	571	-63	3	49		49	49	49	49	49	49	49	49	49	49	49			
Activity 3 - Excavation	118	655	-64	3	57					59	59	59	59	59	59	59	59			
Activity 4 - Basement	114	571	-63	3	54										54	54	54			
<b>5) Park Construction - Zone B</b>																				
6) Flyover	106	264	-56	3	49	49	49	49	49	49	49	49	49	49	49	49	49			
7) East Concrete Batching Plant (Operation)	109	461	-61	3	50	50	50	50	50	50	50	50	50	50						
8) East Concrete Batching Plant (Demolition)	97	461	-61	3	39											39	39			
9) West Concrete Batching Plant (Construction)	107	506	-62	3	48				48	48	48	48	48	48						
10) West Concrete Batching Plant (Operation)	109	506	-62	3	50											50	50			
<b>11) Barging Point (BP)</b>																				
BP4	110	307	-58	3	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						
BP6	110	506	-62	3	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						
12) West Pier (Optional)	112	846	-67	3	49	49	49	49	49	49	49	49	49	49	49	49	49			
13) South Pier (Optional)	112	347	-59	3	56	56	56	56	56	56	56	56	56	56	56	56	56			
14) 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 the Project, dB(A)</b>						70	70	70	70	70	70	70	70	70	70	70	70			
						<b>2016</b>		<b>2017</b>												
						<b>Min</b>	<b>Max</b>	<b>Min</b>	<b>Max</b>											
						70	70	70	70											

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

No concurrent project is identified in and after 2016. Hence, no cumulative construction noise impact is assessed.

Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

Mitigated Construction Noise Impact

NSR: HT3 (The Harbourside Tower 3)

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB	Distance (m)	Distance Correction, dB	Facade Correction,	Calculated SPL,	2016												2017											
						4	5	6	7	8	9	10	11	12	1	2	3												
<b>1) Zone 1</b>																													
Activity 5 - Superstructure	108	576	-63	3	48	48																							
<b>2) Zone 2</b>																													
Activity 4 - Basement and Underpass																													
Zone 2.1	106	111	-49	3	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	
Zone 2.2	106	169	-53	3	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	
Zone 2.3	105	302	-58	3	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	
Zone 2.4	105	446	-61	3	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	
Zone 2.5	105	456	-61	3	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	
Zone 2.6	105	342	-59	3	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	
Zone 2.7	106	228	-55	3	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	
Zone 2.8	106	208	-54	3	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	
Activity 5 - Superstructure																													
Zone 2.1	106	111	-49	3	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	
Zone 2.2	106	169	-53	3	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	
Zone 2.3	106	302	-58	3	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	
Zone 2.4	106	446	-61	3	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	
Zone 2.5	106	456	-61	3	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	
Zone 2.6	106	342	-59	3	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	
Zone 2.7	106	228	-55	3	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	
Zone 2.8	106	208	-54	3	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	
<b>3) Zone 3</b>																													
Activity 4 - Basement and Underpass																													
Activity 5 - Superstructure	109	179	-53	3	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	
<b>4) Zone 4</b>																													
Activity 1 - D Walling	109	481	-62	3	51		51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	
Activity 2 - Bored Piling	119	481	-62	3	60					60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	
Activity 3 - Excavation	118	564	-63	3	58						58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	
Activity 4 - Basement	114	481	-62	3	56																	56	56	56	56	56	56	56	
<b>5) Park Construction - Zone B</b>																													
Activity 1 - Flyover	106	198	-54	3	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	
<b>7) East Concrete Batching Plant (Operation)</b>																													
Activity 1 - East Concrete Batching Plant (Demolition)	97	554	-63	3	37																				37	37	37	37	
<b>9) West Concrete Batching Plant (Construction)</b>																													
Activity 1 - West Concrete Batching Plant (Operation)	107	419	-60	3	50					50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	
<b>11) Barging Point (BP)</b>																													
BP4	110	302	-58	3	55	55	55	55	55	55	55	55	55	55	55	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	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	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	50	50	50	50	50	50	50	50	50	50	50	
<b>12) West Pier (Optional)</b>																													
Activity 1 - West Pier (Optional)	112	756	-66	3	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	
<b>13) South Pier (Optional)</b>																													
Activity 1 - South Pier (Optional)	112	327	-58	3	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	
<b>14) Viewing Platform (Optional)</b>																													
Activity 1 - Viewing Platform (Optional)	108	412	-60	3	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	
<b>Predicted Noise Level of the Project, dB(A)</b>						69	69	69	69	69	69	70	70	70	70	70	69	69	69	69	69	69	69	69	69	69	69	69	69
																<b>2016</b>		<b>2017</b>											
																<b>Min</b>	<b>Max</b>	<b>Min</b>	<b>Max</b>										

Note: Bold figure in shaded box denotes exceedance of relevant construction noise criteria  
 No concurrent project is identified in and after 2016. Hence, no cumulative construction noise impact is assessed.  
 Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

**Mitigated Construction Noise Impact**

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

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB	Distance (m)	Distance Correction, dB	Facade Correction,	Calculated SPL,	2016												2017		
						4	5	6	7	8	9	10	11	12	1	2	3			
<b>1) Zone 1</b>																				
Activity 5 - Superstructure	108	391	-60	3	51	51														
<b>2) Zone 2</b>																				
Activity 4 - Basement and Underpass																				
Zone 2.1	106	178	-53	3	56	56	56	56	56	56	56	56	56	56	56	56	56			
Zone 2.2	106	92	-47	3	61	61	61	61	61	61	61	61	61	61	61	61	61			
Zone 2.3	106	139	-51	3	58	58	58	58	58	58	58	58	58	58	58	58	58			
Zone 2.4	105	257	-56	3	52	52	52	52	52	52	52	52	52	52	52	52	52			
Zone 2.5	105	302	-58	3	51	51	51	51	51	51	51	51	51	51	51	51	51			
Zone 2.6	105	203	-54	3	54	54	54	54	54	54	54	54	54	54	54	54	54			
Zone 2.7	106	188	-53	3	55	55	55	55	55	55	55	55	55	55	55	55	55			
Zone 2.8	105	282	-57	3	51	51	51	51	51	51	51	51	51	51	51	51	51			
Activity 5 - Superstructure																				
Zone 2.1	106	178	-53	3	56	56	56	56	56	56	56	56	56	56	56	56	56			
Zone 2.2	106	92	-47	3	62	62	62	62	62	62	62	62	62	62	62	62	62			
Zone 2.3	106	139	-51	3	58	58	58	58	58	58	58	58	58	58	58	58	58			
Zone 2.4	106	257	-56	3	52	52	52	52	52	52	52	52	52	52	52	52	52			
Zone 2.5	106	302	-58	3	51	51	51	51	51	51	51	51	51	51	51	51	51			
Zone 2.6	106	203	-54	3	54	54	54	54	54	54	54	54	54	54	54	54	54			
Zone 2.7	106	188	-53	3	55	55	55	55	55	55	55	55	55	55	55	55	55			
Zone 2.8	106	282	-57	3	52	52	52	52	52	52	52	52	52	52	52	52	52			
<b>3) Zone 3</b>																				
Activity 4 - Basement and Underpass																				
Activity 5 - Superstructure	109	377	-60	3	55	55	55	55	55	55	55	55	55	55	55	55	55			
<b>4) Zone 4</b>																				
Activity 1 - D Walling																				
Activity 2 - Bored Piling	119	676	-65	3	58					58	58	58	58	58	58	58	58			
Activity 3 - Excavation	118	746	-65	3	56						56	56	56	56	56	56	56			
Activity 4 - Basement	114	676	-65	3	53										53	53	53			
<b>5) Park Construction - Zone B</b>																				
6) Flyover	106	379	-60	3	49	49	49	49	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			
8) East Concrete Batching Plant (Demolition)	97	377	-60	3	40											40	40			
9) West Concrete Batching Plant (Construction)	107	598	-64	3	47				47	47	47	47	47	47	47	47	47			
10) West Concrete Batching Plant (Operation)	109	598	-64	3	48											48	48			
<b>11) Barging 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			
12) West Pier (Optional)	112	936	-67	3	48	48	48	48	48	48	48	48	48	48	48	48	48			
13) South Pier (Optional)	112	396	-60	3	55	55	55	55	55	55	55	55	55	55	55	55	55			
14) 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 the Project, dB(A)</b>						70	69	69	70	70	70	70	70	70	70	70	70			
												<b>2016</b>		<b>2017</b>						
												Min	Max	Min	Max					
												69	70	70	70					

Note: Bold figure in shaded box denotes exceedance of relevant construction noise criteria  
 No concurrent project is identified in and after 2016. Hence, no cumulative construction noise impact is assessed.  
 Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

**Mitigated Construction Noise Impact**

**NSR: RD (Residential Development next to Austin Station)**

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB	Distance (m)	Distance Correction, dB	Facade Correction,	Calculated SPL,	2016												2017		
						4	5	6	7	8	9	10	11	12	1	2	3			
<b>1) Zone 1</b>																				
Activity 5 - Superstructure	108	99	-48	3	63	63														
<b>2) Zone 2</b>																				
Activity 4 - Basement and Underpass																				
Zone 2.1	105	621	-64	3	44	44	44	44	44	44	44	44	44	44	44	44	44	44		
Zone 2.2	105	454	-61	3	47	47	47	47	47	47	47	47	47	47	47	47	47	47		
Zone 2.3	106	303	-58	3	51	51	51	51	51	51	51	51	51	51	51	51	51	51		
Zone 2.4	106	158	-52	3	57	57	57	57	57	57	57	57	57	57	57	57	57	57		
Zone 2.5	106	224	-55	3	54	54	54	54	54	54	54	54	54	54	54	54	54	54		
Zone 2.6	106	330	-58	3	50	50	50	50	50	50	50	50	50	50	50	50	50	50		
Zone 2.7	105	492	-62	3	46	46	46	46	46	46	46	46	46	46	46	46	46	46		
Zone 2.8	105	664	-64	3	44	44	44	44	44	44	44	44	44	44	44	44	44	44		
Activity 5 - Superstructure																				
Zone 2.1	106	621	-64	3	45	45	45	45	45	45	45	45	45	45	45	45	45	45		
Zone 2.2	106	454	-61	3	47	47	47	47	47	47	47	47	47	47	47	47	47	47		
Zone 2.3	106	303	-58	3	51	51	51	51	51	51	51	51	51	51	51	51	51	51		
Zone 2.4	106	158	-52	3	57	57	57	57	57	57	57	57	57	57	57	57	57	57		
Zone 2.5	106	224	-55	3	54	54	54	54	54	54	54	54	54	54	54	54	54	54		
Zone 2.6	106	330	-58	3	51	51	51	51	51	51	51	51	51	51	51	51	51	51		
Zone 2.7	106	492	-62	3	47	47	47	47	47	47	47	47	47	47	47	47	47	47		
Zone 2.8	106	664	-64	3	44	44	44	44	44	44	44	44	44	44	44	44	44	44		
<b>3) Zone 3</b>																				
Activity 4 - Basement and Underpass																				
Activity 5 - Superstructure	109	821	-66	3	48	48	48	48	48	48	48	48	48	48	48	48	48	48		
<b>4) Zone 4</b>																				
Activity 1 - D Walling	109	1121	-69	3	43	43	43	43	43	43	43	43	43	43	43	43	43	43		
Activity 2 - Bored Piling	119	1121	-69	3	53	53	53	53	53	53	53	53	53	53	53	53	53	53		
Activity 3 - Excavation	118	1206	-70	3	51	51	51	51	51	51	51	51	51	51	51	51	51	51		
Activity 4 - Basement	114	1121	-69	3	48	48	48	48	48	48	48	48	48	48	48	48	48	48		
<b>5) Park Construction - Zone B</b>	102	251	-56	3	49	49	49	49	49	49	49	49	49	49	49	49	49	49		
<b>6) Flyover</b>	106	837	-66	3	42	42	42	42	42	42	42	42	42	42	42	42	42	42		
<b>7) East Concrete Batching Plant (Operation)</b>	109	165	-52	3	59	59	59	59	59	59	59	59	59	59	59	59	59	59		
<b>8) East Concrete Batching Plant (Demolition)</b>	97	165	-52	3	48	48	48	48	48	48	48	48	48	48	48	48	48	48		
<b>9) West Concrete Batching Plant (Construction)</b>	107	1056	-68	3	42	42	42	42	42	42	42	42	42	42	42	42	42	42		
<b>10) West Concrete Batching Plant (Operation)</b>	109	1056	-68	3	43	43	43	43	43	43	43	43	43	43	43	43	43	43		
<b>11) Barging Point (BP)</b>																				
BP4	110	731	-65	3	48	48	48	48	48	48	48	48	48	48	48	48	48	48		
BP5	110	776	-66	3	47	47	47	47	47	47	47	47	47	47	47	47	47	47		
BP6	110	986	-68	3	45	45	45	45	45	45	45	45	45	45	45	45	45	45		
BP7	110	1086	-69	3	44	44	44	44	44	44	44	44	44	44	44	44	44	44		
<b>12) West Pier (Optional)</b>	112	1391	-71	3	44	44	44	44	44	44	44	44	44	44	44	44	44	44		
<b>13) South Pier (Optional)</b>	112	771	-66	3	49	49	49	49	49	49	49	49	49	49	49	49	49	49		
<b>14) Viewing Platform (Optional)</b>	108	447	-61	3	50	50	50	50	50	50	50	50	50	50	50	50	50	50		
<b>Predicted Noise Level of the Project, dB(A)</b>						68	66	66	66	66	66	66	66	66	66	65	65	65	65	
															<b>2016</b>		<b>2017</b>			
															Min	Max	Min	Max		

Note: Bold figure in shaded box denotes exceedance of relevant construction noise criteria  
No concurrent project is identified in and after 2016. Hence, no cumulative construction noise impact is assessed.  
Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

**Mitigated Construction Noise Impact**

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

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB	Distance (m)	Distance Correction, dB	Facade Correction,	Calculated SPL,	2016												2017			
						4	5	6	7	8	9	10	11	12	1	2	3				
<b>1) Zone 1</b>																					
Activity 5 - Superstructure	108	100	-48	3	63	63															
<b>2) Zone 2</b>																					
Activity 4 - Basement and Underpass																					
Zone 2.1	105	695	-65	3	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	
Zone 2.2	105	525	-62	3	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	
Zone 2.3	106	370	-59	3	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	
Zone 2.4	106	225	-55	3	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	
Zone 2.5	106	260	-56	3	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	
Zone 2.6	106	405	-60	3	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	
Zone 2.7	105	570	-63	3	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	
Zone 2.8	105	750	-66	3	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	
Activity 5 - Superstructure																					
Zone 2.1	106	695	-65	3	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	
Zone 2.2	106	525	-62	3	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	
Zone 2.3	106	370	-59	3	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	
Zone 2.4	106	225	-55	3	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	
Zone 2.5	106	260	-56	3	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	
Zone 2.6	106	405	-60	3	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	
Zone 2.7	106	570	-63	3	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	
Zone 2.8	106	750	-66	3	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	
<b>3) Zone 3</b>																					
Activity 4 - Basement and Underpass																					
Activity 5 - Superstructure	109	915	-67	3	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	
<b>4) Zone 4</b>																					
Activity 1 - D Walling	109	1206	-70	3	43		43	43	43	43	43	43	43	43	43	43	43	43	43	43	
Activity 2 - Bored Piling	119	1206	-70	3	52					52	52	52	52	52	52	52	52	52	52	52	
Activity 3 - Excavation	118	1296	-70	3	51									51	51	51	51	51	51	51	
Activity 4 - Basement	114	1206	-70	3	48													48	48	48	
<b>5) Park Construction - Zone B</b>	102	282	-57	3	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	
<b>6) Flyover</b>	106	922	-67	3	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	
<b>7) East Concrete Batching Plant (Operation)</b>	109	215	-55	3	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	
<b>8) East Concrete Batching Plant (Demolition)</b>	97	215	-55	3	45														45	45	
<b>9) West Concrete Batching Plant (Construction)</b>	107	1140	-69	3	41					41	41	41	41	41	41	41	41	41	41	41	
<b>10) West Concrete Batching Plant (Operation)</b>	109	1140	-69	3	43														43	43	
<b>11) Barging Point (BP)</b>																					
BP4	110	805	-66	3	47	47	47	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	46	46	46	
BP6	110	1060	-69	3	44	44	44	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	43	43	43	
<b>12) West Pier (Optional)</b>	112	1475	-71	3	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	
<b>13) South Pier (Optional)</b>	112	845	-67	3	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	
<b>14) Viewing Platform (Optional)</b>	108	508	-62	3	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	
<b>Predicted Noise Level of the Project, dB(A)</b>						66	64	64	64	64	64	64	64	64	64	64	63	63	63	63	63
															<b>2016</b>		<b>2017</b>				
															<b>Min</b>	<b>Max</b>	<b>Min</b>	<b>Max</b>			

Note: Bold figure in shaded box denotes exceedance of relevant construction noise criteria  
 No concurrent project is identified in and after 2016. Hence, no cumulative construction noise impact is assessed.  
 Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

**Mitigated Construction Noise Impact**

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

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB	Distance (m)	Distance Correction, dB	Facade Correction,	Calculated SPL,	2016												2017		
						4	5	6	7	8	9	10	11	12	1	2	3			
<b>1) Zone 1</b>																				
Activity 5 - Superstructure	108	74	-45	3	66	66														
<b>2) Zone 2</b>																				
Activity 4 - Basement and Underpass																				
Zone 2.1	105	676	-65	3	44	44	44	44	44	44	44	44	44	44	44	44	44			
Zone 2.2	105	502	-62	3	46	46	46	46	46	46	46	46	46	46	46	46	46			
Zone 2.3	106	343	-59	3	50	50	50	50	50	50	50	50	50	50	50	50	50			
Zone 2.4	106	205	-54	3	54	54	54	54	54	54	54	54	54	54	54	54	54			
Zone 2.5	106	195	-54	3	55	55	55	55	55	55	55	55	55	55	55	55	55			
Zone 2.6	106	353	-59	3	50	50	50	50	50	50	50	50	50	50	50	50	50			
Zone 2.7	105	517	-62	3	46	46	46	46	46	46	46	46	46	46	46	46	46			
Zone 2.8	105	716	-65	3	43	43	43	43	43	43	43	43	43	43	43	43	43			
Activity 5 - Superstructure																				
Zone 2.1	106	676	-65	3	44	44	44	44	44	44	44	44	44	44	44	44	44			
Zone 2.2	106	502	-62	3	47	47	47	47	47	47	47	47	47	47	47	47	47			
Zone 2.3	106	343	-59	3	50	50	50	50	50	50	50	50	50	50	50	50	50			
Zone 2.4	106	205	-54	3	55	55	55	55	55	55	55	55	55	55	55	55	55			
Zone 2.5	106	195	-54	3	55	55	55	55	55	55	55	55	55	55	55	55	55			
Zone 2.6	106	353	-59	3	50	50	50	50	50	50	50	50	50	50	50	50	50			
Zone 2.7	106	517	-62	3	46	46	46	46	46	46	46	46	46	46	46	46	46			
Zone 2.8	106	716	-65	3	43	43	43	43	43	43	43	43	43	43	43	43	43			
<b>3) Zone 3</b>																				
Activity 4 - Basement and Underpass																				
Activity 5 - Superstructure	109	901	-67	3	45	45	45	45	45	45	45	45	45	45	45	45	45			
<b>4) Zone 4</b>																				
Activity 1 - D Walling	109	1191	-70	3	43		43	43	43	43	43	43	43	43	43	43	43			
Activity 2 - Bored Piling	119	1191	-70	3	53					53	53	53	53	53	53	53	53			
Activity 3 - Excavation	118	1271	-70	3	51						51	51	51	51	51	51	51			
Activity 4 - Basement	114	1191	-70	3	48										48	48	48			
<b>5) Park Construction - Zone B</b>																				
6) Flyover	106	914	-67	3	41	41	41	41	41	41	41	41	41	41	41	41	41			
7) East Concrete Batching Plant (Operation)	109	158	-52	3	60	60	60	60	60	60	60	60	60	60	60	60	60			
8) East Concrete Batching Plant (Demolition)	97	158	-52	3	48											48	48			
9) West Concrete Batching Plant (Construction)	107	1136	-69	3	41				41	41	41	41	41	41	41	41	41			
10) West Concrete Batching Plant (Operation)	109	1136	-69	3	43											43	43			
<b>11) Barging 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			
12) West Pier (Optional)	112	1451	-71	3	44	44	44	44	44	44	44	44	44	44	44	44	44			
13) South Pier (Optional)	112	786	-66	3	49	49	49	49	49	49	49	49	49	49	49	49	49			
14) Viewing Platform (Optional)	108	422	-61	3	51	51	51	51	51	51	51	51	51	51	51	51	51			
<b>Predicted Noise Level of the Project, dB(A)</b>						69	65	65	65	66	66	66	66	66	64	64	64	64		
															<b>2016</b>		<b>2017</b>			
															Min	Max	Min	Max		

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

No concurrent project is identified in and after 2016. Hence, no cumulative construction noise impact is assessed.

Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.



**Mitigated Construction Noise Impact**

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

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB	Distance (m)	Distance Correction, dB	Facade Correction,	Calculated SPL,	2016												2017		
						4	5	6	7	8	9	10	11	12	1	2	3			
<b>1) Zone 1</b>																				
Activity 5 - Superstructure	108	78	-46	3	65	65														
<b>2) Zone 2</b>																				
Activity 4 - Basement and Underpass																				
Zone 2.1	105	701	-65	3	43	43	43	43	43	43	43	43	43	43	43	43	43			
Zone 2.2	105	527	-62	3	46	46	46	46	46	46	46	46	46	46	46	46	46			
Zone 2.3	106	367	-59	3	49	49	49	49	49	49	49	49	49	49	49	49	49			
Zone 2.4	106	214	-55	3	54	54	54	54	54	54	54	54	54	54	54	54	54			
Zone 2.5	106	214	-55	3	54	54	54	54	54	54	54	54	54	54	54	54	54			
Zone 2.6	106	377	-60	3	49	49	49	49	49	49	49	49	49	49	49	49	49			
Zone 2.7	105	547	-63	3	45	45	45	45	45	45	45	45	45	45	45	45	45			
Zone 2.8	105	736	-65	3	43	43	43	43	43	43	43	43	43	43	43	43	43			
Activity 5 - Superstructure																				
Zone 2.1	106	701	-65	3	44	44	44	44	44	44	44	44	44	44	44	44	44			
Zone 2.2	106	527	-62	3	46	46	46	46	46	46	46	46	46	46	46	46	46			
Zone 2.3	106	367	-59	3	50	50	50	50	50	50	50	50	50	50	50	50	50			
Zone 2.4	106	214	-55	3	54	54	54	54	54	54	54	54	54	54	54	54	54			
Zone 2.5	106	214	-55	3	54	54	54	54	54	54	54	54	54	54	54	54	54			
Zone 2.6	106	377	-60	3	49	49	49	49	49	49	49	49	49	49	49	49	49			
Zone 2.7	106	547	-63	3	46	46	46	46	46	46	46	46	46	46	46	46	46			
Zone 2.8	106	736	-65	3	43	43	43	43	43	43	43	43	43	43	43	43	43			
<b>3) Zone 3</b>																				
Activity 4 - Basement and Underpass																				
Activity 5 - Superstructure	109	916	-67	3	45	45	45	45	45	45	45	45	45	45	45	45	45			
<b>4) Zone 4</b>																				
Activity 1 - D Walling	109	1208	-70	3	43		43	43	43	43	43	43	43	43	43	43	43			
Activity 2 - Bored Piling	119	1208	-70	3	52					52	52	52	52	52	52	52	52			
Activity 3 - Excavation	118	1292	-70	3	51						51	51	51	51	51	51	51			
Activity 4 - Basement	114	1208	-70	3	48										48	48	48			
<b>5) Park Construction - Zone B</b>	102	223	-55	3	50	50	50	50	50	50	50	50	50	50	50	50	50			
<b>6) Flyover</b>	106	930	-67	3	41	41	41	41	41	41	41	41	41	41	41	41	41			
<b>7) East Concrete Batching Plant (Operation)</b>	109	183	-53	3	58	58	58	58	58	58	58	58	58	58						
<b>8) East Concrete Batching Plant (Demolition)</b>	97	183	-53	3	47											47	47			
<b>9) West Concrete Batching Plant (Construction)</b>	107	1151	-69	3	41				41	41	41	41	41	41	41					
<b>10) West Concrete Batching Plant (Operation)</b>	109	1151	-69	3	42											42	42			
<b>11) Barging Point (BP)</b>																				
BP4	110	781	-66	3	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					
BP6	110	1036	-68	3	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					
<b>12) West Pier (Optional)</b>	112	1471	-71	3	44	44	44	44	44	44	44	44	44	44	44	44	44			
<b>13) South Pier (Optional)</b>	112	816	-66	3	49	49	49	49	49	49	49	49	49	49	49	49	49			
<b>14) Viewing Platform (Optional)</b>	108	462	-61	3	50	50	50	50	50	50	50	50	50	50	50	50	50			
<b>Predicted Noise Level of the Project, dB(A)</b>						68	65	65	65	65	65	65	65	65	64	64	64	64		
															<b>2016</b>		<b>2017</b>			
															<b>Min</b>	<b>Max</b>	<b>Min</b>	<b>Max</b>		

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

No concurrent project is identified in and after 2016. Hence, no cumulative construction noise impact is assessed.

Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.



**Mitigated Construction Noise Impact**

**NSR: CRGPS (Canton Road Government Primary School)**

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB	Distance (m)	Distance Correction, dB	Facade Correction,	Calculated SPL,	2016												2017																									
						4	5	6	7	8	9	10	11	12	1	2	3																										
<b>1) Zone 1</b>																																											
Activity 5 - Superstructure	108	120	-50	3	62	62																																					
<b>2) Zone 2</b>																																											
Activity 4 - Basement and Underpass																																											
Zone 2.1	105	680	-65	3	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44															
Zone 2.2	105	520	-62	3	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46															
Zone 2.3	106	360	-59	3	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49															
Zone 2.4	106	220	-55	3	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54															
Zone 2.5	106	190	-54	3	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55															
Zone 2.6	106	355	-59	3	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50															
Zone 2.7	105	520	-62	3	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46															
Zone 2.8	105	720	-65	3	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43															
Activity 5 - Superstructure																																											
Zone 2.1	106	680	-65	3	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44															
Zone 2.2	106	520	-62	3	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46															
Zone 2.3	106	360	-59	3	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50															
Zone 2.4	106	220	-55	3	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54															
Zone 2.5	106	190	-54	3	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55															
Zone 2.6	106	355	-59	3	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50															
Zone 2.7	106	520	-62	3	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46															
Zone 2.8	106	720	-65	3	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43															
<b>3) Zone 3</b>																																											
Activity 4 - Basement and Underpass																																											
Activity 5 - Superstructure																																											
<b>4) Zone 4</b>																																											
Activity 1 - D Walling																																											
Activity 2 - Bored Piling																																											
Activity 3 - Excavation																																											
Activity 4 - Basement																																											
<b>5) Park Construction - Zone B</b>																																											
Activity 1 - D Walling																																											
Activity 2 - Bored Piling																																											
Activity 3 - Excavation																																											
Activity 4 - Basement																																											
<b>6) Flyover</b>																																											
Activity 1 - D Walling																																											
Activity 2 - Bored Piling																																											
Activity 3 - Excavation																																											
Activity 4 - Basement																																											
<b>7) East Concrete Batching Plant (Operation)</b>																																											
<b>8) East Concrete Batching Plant (Demolition)</b>																																											
<b>9) West Concrete Batching Plant (Construction)</b>																																											
<b>10) West Concrete Batching Plant (Operation)</b>																																											
<b>11) Barging Point (BP)</b>																																											
BP4																																											
BP5																																											
BP6																																											
BP7																																											
<b>12) West Pier (Optional)</b>																																											
<b>13) South Pier (Optional)</b>																																											
<b>14) Viewing Platform (Optional)</b>																																											
<b>Predicted Noise Level of the Project, dB(A)</b>						67	65	65	65	65	65	66	66	66	66	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64													

Note: Bold figure in shaded box denotes exceedance of relevant construction noise criteria  
 No concurrent project is identified in and after 2016. Hence, no cumulative construction noise impact is assessed.  
 Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.





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)	
1a	<b>Zone 2 (for area with less plant) [3]</b>								
	<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
	<b>Activity 5 - Superstructure</b>								
	Crane, mobile	EPD-01516	101	1	50%	-5	Movable Barrier	93	
	Crane Lorry 5.5 tonne < gross vehicle weight =< 38 tonne	[1]	105	1	50%	-5	Movable Barrier	97	
	Concrete pump, stationary/ lorry mounted	CNP 047	109	1	50%	-10	Movable Barrier	96	
	Poker, vibratory, hand-held (electric)	[1]	102	5	50%	-10	Movable Barrier	96	
	Bar bender and cutter (electric)	CNP 021	90	1	50%	-10	Movable Barrier	77	
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	2	100%	-15	Enclosure	83	
	Concrete lorry mixer	CNP 044	109	1	50%	-5	Movable Barrier	101	
	Drill/grinder, hand-held (electric)	CNP 065	98	2	30%	-10	Movable Barrier	86	
	Water pump (electric)	CNP 281	88	1	30%	-10	Movable Barrier	73	
Excavator, wheeled/tracked	EPD-01230	99	1	30%	-5	Movable Barrier	89		
Fork Lift Truck	[2]	104	1	30%	-5	Movable Barrier	94		
Hoist, passenger/ material (electric)	CNP 122	95	1	30%			90		
							Total SWL, dB (A)	105	
1b	<b>Zone 2 (for area with more plant) [3]</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)	106
	<b>Activity 5 - Superstructure</b>								
	Crane, tower (electric)	CNP 049	95	1	50%			92	
	Crane, mobile	EPD-01516	101	1	50%	-5	Movable Barrier	93	
	Crane Lorry 5.5 tonne < gross vehicle weight =< 38 tonne	[1]	105	1	50%	-5	Movable Barrier	97	
	Concrete pump, stationary/ lorry mounted	CNP 047	109	1	50%	-10	Movable Barrier	96	
	Poker, vibratory, hand-held (electric)	[1]	102	5	50%	-10	Movable Barrier	96	
	Bar bender and cutter (electric)	CNP 021	90	1	50%	-10	Movable Barrier	77	
	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	1	50%	-5	Movable Barrier	101		
Drill/grinder, hand-held (electric)	CNP 065	98	3	30%	-10	Movable Barrier	88		
Water pump (electric)	CNP 281	88	3	30%	-10	Movable Barrier	78		
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)	106	
2	<b>Zone 3</b>								
	<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	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	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	6	30%	-10	Movable Barrier	91	
	Water pump (electric)	CNP 281	88	4	30%	-10	Movable Barrier	79	
	Excavator, wheeled/tracked	EPD-01230	99	4	30%	-5	Movable Barrier	95	
	Fork Lift Truck	[2]	104	4	30%	-5	Movable Barrier	100	
	Hoist, passenger/ material (electric)	CNP 122	95	4	30%			96	
								Total SWL, dB (A)	109
3	<b>Zone 4</b>								
	<b>Activity 2 - Bored Piling</b>								
	Crane, mobile	EPD-01516	101	6	60%	-5	Movable Barrier	102	
	Excavator/ loader, wheeled/ tracked	CNP 081	112	6	30%	-5	Movable Barrier	110	
	Piling Rig	[2]	112	6	60%	-10	Fabric	108	
	Drill Rig	[1]	110	6	60%	-10	Fabric	106	
	Excavator/ loader, wheeled/ tracked	CNP 081	112	6	60%	-5	Movable Barrier	113	
	Piling, large diameter bored, grab and chisel	CNP 164	115	6	60%	-10	Fabric	111	
	Piling, large diameter bored, reverse circulation drill	CNP 166	100	6	60%	-10	Fabric	96	
	Piling, large diameter bored, oscillator	CNP 165	115	6	60%	-10	Fabric	111	
	Air compressor, air flow > 30m3/min	CNP 003	104	6	100%	-15	Enclosure	97	
	Grout Mixer	[1]	90	6	60%	-10	Movable Barrier	86	
	Grout Pump	[1]	105	6	60%	-10	Movable Barrier	101	
	Bar bender and cutter (electric)	CNP 021	90	6	60%	-10	Movable Barrier	86	
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	6	100%	-10	Enclosure	93	
	Dump truck	CNP 067	117	3	30%	-5	Movable Barrier	112	
	Concrete lorry mixer	CNP 044	109	3	60%	-5	Movable Barrier	107	
	Welding Set	[2]	78	6	60%	-10	Movable Barrier	74	
								Total SWL, dB (A)	119
	<b>Activity 3 - Excavation</b>								
Crane, mobile	EPD-01516	101	6	60%	-5	Movable Barrier	102		
Air compressor, air flow > 30m3/min	CNP 003	104	6	100%	-15	Enclosure	97		
Excavator/ loader, wheeled/ tracked	CNP 081	112	6	60%	-5	Movable Barrier	113		
Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	6	100%	-15	Enclosure	88		
Dump truck	CNP 067	117	9	30%	-5	Movable Barrier	116		
							Total SWL, dB (A)	118	

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 4 - Basement</b>								
	Crane, tower (electric)	CNP 049	95	4	60%	-5	Movable Barrier	94
	Crane, mobile	EPD-01516	101	8	60%	-5	Movable Barrier	103
	Crane Lorry 5.5 tonne < gross vehicle weight =< 38 tonne	[1]	105	8	60%	-5	Movable Barrier	107
	Concrete pump, stationary/ lorry mounted	CNP 047	109	8	60%	-10	Movable Barrier	106
	Poker, vibratory, hand-held (electric)	[1]	102	40	60%	-10	Movable Barrier	106
	Bar bender and cutter (electric)	CNP 021	90	8	60%	-10	Movable Barrier	87
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	8	100%	-15	Enclosure	89
	Air compressor, air flow > 30m3/min	CNP 003	104	4	100%	-10	Movable Barrier	100
	Concrete lorry mixer	CNP 044	109	8	60%	-5	Movable Barrier	111
							Total SWL, dB (A)	114
<b>Activity 5 - Superstructure</b>								
	Crane, tower (electric)	CNP 049	95	4	50%			98
	Crane, mobile	EPD-01516	101	8	50%	-5	Movable Barrier	102
	Crane Lorry 5.5 tonne < gross vehicle weight =< 38 tonne	[1]	105	8	50%	-5	Movable Barrier	106
	Concrete pump, stationary/ lorry mounted	CNP 047	109	8	50%	-10	Movable Barrier	105
	Poker, vibratory, hand-held (electric)	[1]	102	40	50%	-10	Movable Barrier	105
	Bar bender and cutter (electric)	CNP 021	90	8	50%	-10	Movable Barrier	86
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	9	100%	-15	Enclosure	90
	Air compressor, air flow > 30m3/min	CNP 003	104	4	100%	-15	Enclosure	95
	Concrete lorry mixer	CNP 044	109	8	50%	-5	Movable Barrier	110
	Drill/grinder, hand-held (electric)	CNP 065	98	20	30%	-10	Movable Barrier	96
	Water pump (electric)	CNP 281	88	14	30%	-10	Movable Barrier	84
	Excavator/ loader, wheeled/ tracked	CNP 081	112	14	30%	-5	Movable Barrier	113
	Fork Lift Truck	[2]	104	14	30%	-5	Movable Barrier	105
	Hoist, passenger/ material (electric)	CNP 122	95	14	30%			101
							Total SWL, dB (A)	117
4	<b>Zone 5</b>							
<b>Activity 1 - Site Formation</b>								
	Breaker, excavator mounted (pneumatic)	CNP 027	122	2	60%	-5	Movable Barrier	118
	Dump truck	CNP 067	117	2	60%	-5	Movable Barrier	113
							Total SWL, dB (A)	119
5	<b>Park Construction - Zone B</b>							
	Dump truck, 5.5 tonne < gross vehicle weight =< 38 tonne	[1]	105	1	60%	-5	Movable Barrier	98
	Crane, mobile	EPD-01516	101	1	60%	-5	Movable Barrier	94
	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
	Lorry	CNP 141	112	1	60%	-5	Movable Barrier	105
							Total SWL, dB (A)	106
6	<b>Park Construction - Zone C</b>							
	Dump truck, 5.5 tonne < gross vehicle weight =< 38 tonne	[1]	105	4	60%			109
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	4	60%			116
	Excavator/ loader, wheeled/ tracked	CNP 081	112	4	60%			116
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	4	100%			101
	Lorry	CNP 141	112	4	60%			116
							Total SWL, dB (A)	121
7	<b>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)	104
<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)	106
							Maximum SWL, dB (A)	106
8	<b>East Concrete Batching Plant (Demolition)</b>							
	Crane, mobile	EPD-01516	101	2	60%	-5	Movable Barrier	97
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	2	60%	-15	Enclosure	81
	Welding set	[2]	78	2	60%	-10	Movable Barrier	69
							Total SWL, dB (A)	97
9	<b>West Concrete Batching Plant (Operation)</b>							
	Excavator/ loader, wheeled/ tracked	CNP 081	112	2	60%	-5	Movable Barrier	108
	Concrete mixer (electric)	CNP 045	96	2	60%	-10	Movable Barrier	87
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	4	60%	-15	Enclosure	84
	Concrete mixer (petrol)	CNP 046	96	6	60%	-10	Movable Barrier	92
	Concrete lorry mixer	CNP 044	109	4	60%	-5	Movable Barrier	108
	Batching plant	CNP 022	108	2	60%			109
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	4	60%	-15	Enclosure	91
	Dump truck, 5.5 tonne < gross vehicle weight =< 38 tonne	[1]	105	2	30%	-5	Movable Barrier	98
							Total SWL, dB (A)	113

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)		
10/11	<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>	
	12	<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/ barge mounted (diesel)	CNP 048	112	1	80%	-5	Movable Barrier	106	
		Tug boat	CNP 221	110	1	60%			108	
									Total SWL, dB (A)	<b>110</b>
		<b>Group 2</b>								
		Crane, mobile/ barge mounted (diesel)	CNP 048	112	2	100%	-5	Movable Barrier	110	
							Total SWL, dB (A)	<b>110</b>		
							Maximum SWL, dB (A)	<b>110</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.





**Mitigated Construction Noise Impact**

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

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB	Distance (m)	Distance Correction, dB	Facade Correction, dB	Calculated SPL, dB	2017												2018										
						4	5	6	7	8	9	10	11	12	1	2	3											
<b>1) Zone 2</b>																												
Activity 4 - Basement and Underpass																												
Zone 2.1	106	113	-49	3	59	59	59	59	59																			
Zone 2.2	106	170	-53	3	56	56	56	56	56																			
Zone 2.3	105	303	-58	3	51	51	51	51	51																			
Zone 2.4	105	447	-61	3	47	47	47	47	47																			
Zone 2.5	105	457	-61	3	47	47	47	47	47																			
Zone 2.6	105	342	-59	3	50	50	50	50	50																			
Zone 2.7	106	229	-55	3	53	53	53	53	53																			
Zone 2.8	106	209	-54	3	54	54	54	54	54																			
Activity 5 - Superstructure																												
Zone 2.1	106	111	-49	3	60	60	60	60	60	60	60	60	60	60	60	60	60											
Zone 2.2	106	169	-53	3	57	57	57	57	57	57	57	57	57	57	57	57	57											
Zone 2.3	105	302	-58	3	50	50	50	50	50	50	50	50	50	50	50	50	50											
Zone 2.4	105	446	-61	3	47	47	47	47	47	47	47	47	47	47	47	47	47											
Zone 2.5	105	456	-61	3	47	47	47	47	47	47	47	47	47	47	47	47	47											
Zone 2.6	105	342	-59	3	49	49	49	49	49	49	49	49	49	49	49	49	49											
Zone 2.7	106	228	-55	3	54	54	54	54	54	54	54	54	54	54	54	54	54											
Zone 2.8	106	208	-54	3	55	55	55	55	55	55	55	55	55	55	55	55	55											
<b>2) Zone 3</b>																												
Activity 5 - Superstructure	109	179	-53	3	59	59	59	59	59	59	59	59	59	59	59	59	59											
<b>3) Zone 4</b>																												
Activity 2 - Bored Piling	119	564	-63	3	59	59	59																					
Activity 3 - Excavation	118	564	-63	3	58	58	58	58	58	58																		
Activity 4 - Basement	114	564	-63	3	54	54	54	54	54	54	54																	
Activity 5 - Superstructure	117	577	-63	3	57								57	57	57	57	57											
<b>4) Zone 5</b>																												
Activity 1 - Site Formation	119	321	-58	3	64							64	64	64	64	64	64											
<b>5) Park Construction - Zone B</b>																												
Activity 1 - Site Formation	106	283	-57	3	52	52	52	52	52	52	52																	
<b>6) Park Construction - Zone C</b>																												
Activity 1 - Site Formation	121	337	-59	3	65							65	65	65	65	65	65											
<b>7) Flyover</b>																												
Activity 1 - Site Formation	106	198	-54	3	55	55	55	55																				
<b>8) East Concrete Batching Plant (Demolition)</b>																												
Activity 1 - Site Formation	97	554	-63	3	37	37	37																					
<b>9) West Concrete Batching Plant (Operation)</b>																												
Activity 1 - Site Formation	113	419	-60	3	56	56	56	56	56	56	56	56	56	56	56	56	56											
<b>10) West Pier (Optional)</b>																												
Activity 1 - Site Formation	112	756	-66	3	50	50	50	50	50	50	50	50	50	50	50	50	50											
<b>11) South Pier (Optional)</b>																												
Activity 1 - Site Formation	112	327	-58	3	57	57	57	57	57	57	57	57	57	57	57	57	57											
<b>12) Viewing Platform (Optional)</b>																												
Activity 1 - Site Formation	110	412	-60	3	53	53	53	53	53	53	53	53	53	53	53	53	53											
<b>Predicted Noise Level of this Project, dB (A)</b>															69	69	69	69	67	67	70	70	70	70	70	70	70	70
															<b>2017</b>		<b>2018</b>											
															Min	Max	Min	Max										
															67	70	70	70										

Note: Bold figure in shaded box denotes exceedance of relevant construction noise criteria  
Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.





**Mitigated Construction Noise Impact**

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

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB	Distance (m)	Distance Correction, dB	Facade Correction,	Calculated SPL,	2017												2018		
						4	5	6	7	8	9	10	11	12	1	2	3			
<b>1) Zone 2</b>																				
Activity 4 - Basement and Underpass																				
Zone 2.1	106	695	-65	3	44	44	44	44	44											
Zone 2.2	106	525	-62	3	46	46	46	46	46											
Zone 2.3	105	370	-59	3	49	49	49	49	49											
Zone 2.4	105	225	-55	3	53	53	53	53	53											
Zone 2.5	105	260	-56	3	52	52	52	52	52											
Zone 2.6	105	405	-60	3	48	48	48	48	48											
Zone 2.7	106	570	-63	3	45	45	45	45	45											
Zone 2.8	106	750	-66	3	43	43	43	43	43											
Activity 5 - Superstructure																				
Zone 2.1	105	695	-65	3	43	43	43	43	43	43	43	43	43	43	43	43	43			
Zone 2.2	105	525	-62	3	46	46	46	46	46	46	46	46	46	46	46	46	46			
Zone 2.3	106	370	-59	3	50	50	50	50	50	50	50	50	50	50	50	50	50			
Zone 2.4	106	225	-55	3	54	54	54	54	54	54	54	54	54	54	54	54	54			
Zone 2.5	106	260	-56	3	53	53	53	53	53	53	53	53	53	53	53	53	53			
Zone 2.6	106	405	-60	3	49	49	49	49	49	49	49	49	49	49	49	49	49			
Zone 2.7	105	570	-63	3	45	45	45	45	45	45	45	45	45	45	45	45	45			
Zone 2.8	105	750	-66	3	43	43	43	43	43	43	43	43	43	43	43	43	43			
<b>2) Zone 3</b>																				
Activity 5 - Superstructure	109	915	-67	3	45	45	45	45	45	45	45	45	45	45	45	45	45			
<b>3) Zone 4</b>																				
Activity 2 - Bored Piling	119	1296	-70	3	52	52	52													
Activity 3 - Excavation	118	1296	-70	3	51	51	51	51	51	51	51									
Activity 4 - Basement	114	1296	-70	3	47	47	47	47	47	47	47									
Activity 5 - Superstructure	117	1302	-70	3	50								50	50	50	50	50			
<b>4) Zone 5</b>																				
Activity 1 - Site Formation	119	1040	-68	3	54							54	54	54	54	54	54			
<b>5) Park Construction - Zone B</b>	106	282	-57	3	52	52	52	52	52	52	52									
<b>6) Park Construction - Zone C</b>	121	1054	-68	3	55							55	55	55	55	55	55			
<b>7) Flyover</b>	106	922	-67	3	41	41	41	41												
<b>8) East Concrete Batching Plant (Demolition)</b>	97	215	-55	3	45	45	45	45												
<b>9) West Concrete Batching Plant (Operation)</b>	113	1140	-69	3	47	47	47	47	47	47	47	47	47	47	47	47	47			
<b>10) West Pier (Optional)</b>	112	1475	-71	3	44	44	44	44	44	44	44	44	44	44	44	44	44			
<b>11) South Pier (Optional)</b>	112	845	-67	3	49	49	49	49	49	49	49	49	49	49	49	49	49			
<b>12) Viewing Platform (Optional)</b>	110	508	-62	3	51	51	51	51	51	51	51	51	51	51	51	51	51			
<b>Predicted Noise Level of this Project, dB (A)</b>																2017		2018		
																Min	Max	Min	Max	
																61	63	62	62	

Note: Bold figure in shaded box denotes exceedance of relevant construction noise criteria  
Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

**Mitigated Construction Noise Impact**

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

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB	Distance (m)	Distance Correction, dB	Facade Correction, dB	Calculated SPL, dB	2017												2018													
						4	5	6	7	8	9	10	11	12	1	2	3														
<b>1) Zone 2</b>																															
Activity 4 - Basement and Underpass																															
Zone 2.1	106	677	-65	3	44	44	44	44	44																						
Zone 2.2	106	502	-62	3	47	47	47	47	47																						
Zone 2.3	105	343	-59	3	49	49	49	49	49																						
Zone 2.4	105	206	-54	3	54	54	54	54	54																						
Zone 2.5	105	196	-54	3	54	54	54	54	54																						
Zone 2.6	105	353	-59	3	49	49	49	49	49																						
Zone 2.7	106	517	-62	3	46	46	46	46	46																						
Zone 2.8	106	717	-65	3	43	43	43	43	43																						
Activity 5 - Superstructure																															
Zone 2.1	105	676	-65	3	43	43	43	43	43	43	43	43	43	43	43	43	43														
Zone 2.2	105	502	-62	3	46	46	46	46	46	46	46	46	46	46	46	46	46														
Zone 2.3	106	343	-59	3	51	51	51	51	51	51	51	51	51	51	51	51	51														
Zone 2.4	106	205	-54	3	55	55	55	55	55	55	55	55	55	55	55	55	55														
Zone 2.5	106	195	-54	3	56	56	56	56	56	56	56	56	56	56	56	56	56														
Zone 2.6	106	353	-59	3	50	50	50	50	50	50	50	50	50	50	50	50	50														
Zone 2.7	105	517	-62	3	46	46	46	46	46	46	46	46	46	46	46	46	46														
Zone 2.8	105	716	-65	3	43	43	43	43	43	43	43	43	43	43	43	43	43														
<b>2) Zone 3</b>																															
Activity 5 - Superstructure	109	901	-67	3	45	45	45	45	45	45	45	45	45	45	45	45	45														
<b>3) Zone 4</b>																															
Activity 2 - Bored Piling	119	1271	-70	3	52	52	52																								
Activity 3 - Excavation	118	1271	-70	3	51	51	51	51	51	51	51																				
Activity 4 - Basement	114	1271	-70	3	47	47	47	47	47	47	47																				
Activity 5 - Superstructure	117	1284	-70	3	50								50	50	50	50	50														
<b>4) Zone 5</b>																															
Activity 1 - Site Formation	119	1021	-68	3	54							54	54	54	54	54	54														
<b>5) Park Construction - Zone B</b>																															
Activity 1 - Site Formation	106	178	-53	3	56	56	56	56	56	56	56																				
<b>6) Park Construction - Zone C</b>																															
Activity 1 - Site Formation	121	1060	-69	3	55							55	55	55	55	55	55														
<b>7) Flyover</b>																															
Activity 1 - Site Formation	106	914	-67	3	41	41	41	41																							
<b>8) East Concrete Batching Plant (Demolition)</b>																															
Activity 1 - Site Formation	97	158	-52	3	48	48	48	48																							
<b>9) West Concrete Batching Plant (Operation)</b>																															
Activity 1 - Site Formation	113	1136	-69	3	47	47	47	47	47	47	47	47	47	47	47	47	47														
<b>10) West Pier (Optional)</b>																															
Activity 1 - Site Formation	112	1451	-71	3	44	44	44	44	44	44	44	44	44	44	44	44	44														
<b>11) South Pier (Optional)</b>																															
Activity 1 - Site Formation	112	786	-66	3	50	50	50	50	50	50	50	50	50	50	50	50	50														
<b>12) Viewing Platform (Optional)</b>																															
Activity 1 - Site Formation	110	422	-61	3	53	53	53	53	53	53	53	53	53	53	53	53	53														
<b>Predicted Noise Level of this Project, dB (A)</b>															65	65	65	64	63	63	63	63	63	63	63	63	63	63	63	63	63
															<b>2017</b>		<b>2018</b>														
															<b>Min</b>	<b>Max</b>	<b>Min</b>	<b>Max</b>													
															63	65	63	63													

Note: Bold figure in shaded box denotes exceedance of relevant construction noise criteria  
Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.



**Mitigated Construction Noise Impact**

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

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB	Distance (m)	Distance Correction, dB	Facade Correction, dB	Calculated SPL, dB	2017												2018										
						4	5	6	7	8	9	10	11	12	1	2	3											
<b>1) Zone 2</b>																												
Activity 4 - Basement and Underpass																												
Zone 2.1	106	685	-65	3	44	44	44	44	44																			
Zone 2.2	106	505	-62	3	46	46	46	46	46																			
Zone 2.3	105	355	-59	3	49	49	49	49	49																			
Zone 2.4	105	205	-54	3	54	54	54	54	54																			
Zone 2.5	105	165	-52	3	56	56	56	56	56																			
Zone 2.6	105	350	-59	3	49	49	49	49	49																			
Zone 2.7	106	515	-62	3	46	46	46	46	46																			
Zone 2.8	106	720	-65	3	43	43	43	43	43																			
Activity 5 - Superstructure																												
Zone 2.1	105	685	-65	3	43	43	43	43	43	43	43	43	43	43	43	43	43											
Zone 2.2	105	505	-62	3	46	46	46	46	46	46	46	46	46	46	46	46	46											
Zone 2.3	106	355	-59	3	50	50	50	50	50	50	50	50	50	50	50	50	50											
Zone 2.4	106	205	-54	3	55	55	55	55	55	55	55	55	55	55	55	55	55											
Zone 2.5	106	165	-52	3	57	57	57	57	57	57	57	57	57	57	57	57	57											
Zone 2.6	106	350	-59	3	50	50	50	50	50	50	50	50	50	50	50	50	50											
Zone 2.7	105	515	-62	3	46	46	46	46	46	46	46	46	46	46	46	46	46											
Zone 2.8	105	720	-65	3	43	43	43	43	43	43	43	43	43	43	43	43	43											
<b>2) Zone 3</b>																												
Activity 5 - Superstructure																												
Zone 3	109	905	-67	3	45	45	45	45	45	45	45	45	45	45	45	45	45											
<b>3) Zone 4</b>																												
Activity 2 - Bored Piling																												
Zone 4	119	1279	-70	3	52	52	52																					
Activity 3 - Excavation																												
Zone 4	118	1279	-70	3	51	51	51	51	51	51	51																	
Activity 4 - Basement																												
Zone 4	114	1279	-70	3	47	47	47	47	47	47	47	47																
Activity 5 - Superstructure																												
Zone 4	117	1292	-70	3	50									50	50	50	50											
<b>4) Zone 5</b>																												
Activity 1 - Site Formation																												
Zone 5	119	1022	-68	3	54								54	54	54	54	54											
<b>5) Park Construction - Zone B</b>																												
Zone B	106	150	-51	3	58	58	58	58	58	58	58																	
<b>6) Park Construction - Zone C</b>																												
Zone C	121	1079	-69	3	55								55	55	55	55	55											
<b>7) Flyover</b>																												
Flyover	106	927	-67	3	41	41	41	41																				
<b>8) East Concrete Batching Plant (Demolition)</b>																												
East Concrete Batching Plant (Demolition)	97	160	-52	3	48	48	48	48																				
<b>9) West Concrete Batching Plant (Operation)</b>																												
West Concrete Batching Plant (Operation)	113	1150	-69	3	47	47	47	47	47	47	47	47	47	47	47	47	47											
<b>10) West Pier (Optional)</b>																												
West Pier (Optional)	112	1455	-71	3	44	44	44	44	44	44	44	44	44	44	44	44	44											
<b>11) South Pier (Optional)</b>																												
South Pier (Optional)	112	780	-66	3	50	50	50	50	50	50	50	50	50	50	50	50	50											
<b>12) Viewing Platform (Optional)</b>																												
Viewing Platform (Optional)	110	398	-60	3	53	53	53	53	53	53	53	53	53	53	53	53	53											
<b>Predicted Noise Level of this Project, dB (A)</b>															65	65	65	65	64	64	63	63	63	63	63	63	63	63
															<b>2017</b>		<b>2018</b>											
															Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
															63	65	63	63	63	63	63	63	63	63	63	63	63	63

Note: Bold figure in shaded box denotes exceedance of relevant construction noise criteria  
Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.





**Mitigated Construction Noise Impact**

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

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB	Distance (m)	Distance Correction, dB	Facade Correction, dB	Calculated SPL, dB	2017												2018		
						4	5	6	7	8	9	10	11	12	1	2	3			
<b>1) Zone 2</b>																				
Activity 4 - Basement and Underpass																				
Zone 2.1	106	581	-63	3	45	45	45	45	45											
Zone 2.2	106	416	-60	3	48	48	48	48	48											
Zone 2.3	105	256	-56	3	52	52	52	52	52											
Zone 2.4	105	108	-49	3	60	60	60	60	60											
Zone 2.5	105	70	-45	3	63	63	63	63	63											
Zone 2.6	105	251	-56	3	52	52	52	52	52											
Zone 2.7	106	411	-60	3	48	48	48	48	48											
Zone 2.8	106	611	-64	3	45	45	45	45	45											
Activity 5 - Superstructure																				
Zone 2.1	105	580	-63	3	45	45	45	45	45	45	45	45	45	45	45	45	45			
Zone 2.2	105	415	-60	3	48	48	48	48	48	48	48	48	48	48	48	48	48			
Zone 2.3	106	256	-56	3	53	53	53	53	53	53	53	53	53	53	53	53	53			
Zone 2.4	106	112	-49	3	60	60	60	60	60	60	60	60	60	60	60	60	60			
Zone 2.5	106	68	-45	3	65	65	65	65	65	65	65	65	65	65	65	65	65			
Zone 2.6	106	251	-56	3	53	53	53	53	53	53	53	53	53	53	53	53	53			
Zone 2.7	105	411	-60	3	48	48	48	48	48	48	48	48	48	48	48	48	48			
Zone 2.8	105	610	-64	3	44	44	44	44	44	44	44	44	44	44	44	44	44			
<b>2) Zone 3</b>																				
Activity 5 - Superstructure	109	800	-66	3	46	46	46	46	46	46	46	46	46	46	46	46	46			
<b>3) Zone 4</b>																				
Activity 2 - Bored Piling	119	1179	-69	3	53	53	53													
Activity 3 - Excavation	118	1179	-69	3	52	52	52	52	52	52	52									
Activity 4 - Basement	114	1179	-69	3	48	48	48	48	48	48	48									
Activity 5 - Superstructure	117	1192	-70	3	50								50	50	50	50	50			
<b>4) Zone 5</b>																				
Activity 1 - Site Formation	119	923	-67	3	55							55	55	55	55	55	55			
<b>5) Park Construction - Zone B</b>																				
Activity 1 - Site Formation	106	72	-45	3	64	64	64	64	64	64	64									
<b>6) Park Construction - Zone C</b>																				
Activity 1 - Site Formation	121	982	-68	3	56							56	56	56	56	56	56			
<b>7) Flyover</b>																				
Activity 1 - Site Formation	106	828	-66	3	42	42	42	42												
<b>8) East Concrete Batching Plant (Demolition)</b>																				
Activity 1 - Site Formation	97	68	-45	3	55	55	55	55												
<b>9) West Concrete Batching Plant (Operation)</b>																				
Activity 1 - Site Formation	113	1050	-68	3	48	48	48	48	48	48	48	48	48	48	48	48	48			
<b>10) West Pier (Optional)</b>																				
Activity 1 - Site Formation	112	1350	-71	3	45	45	45	45	45	45	45	45	45	45	45	45	45			
<b>11) South Pier (Optional)</b>																				
Activity 1 - Site Formation	112	680	-65	3	51	51	51	51	51	51	51	51	51	51	51	51	51			
<b>12) Viewing Platform (Optional)</b>																				
Activity 1 - Site Formation	110	291	-57	3	56	56	56	56	56	56	56	56	56	56	56	56	56			
<b>Predicted Noise Level of this Project, dB (A)</b>																2017	2018			
																Min	Max	Min	Max	
																68	71	68	68	

Note: Bold figure in shaded box denotes exceedance of relevant construction noise criteria  
Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

**Mitigated Construction Noise Impact**

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

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB	Distance (m)	Distance Correction, dB	Facade Correction,	Calculated SPL,	2017												2018													
						4	5	6	7	8	9	10	11	12	1	2	3														
<b>1) Zone 2</b>																															
Activity 4 - Basement and Underpass																															
Zone 2.1	106	829	-66	3	42	42	42	42	42																						
Zone 2.2	106	660	-64	3	44	44	44	44	44																						
Zone 2.3	105	500	-62	3	46	46	46	46	46																						
Zone 2.4	105	350	-59	3	49	49	49	49	49																						
Zone 2.5	105	345	-59	3	49	49	49	49	49																						
Zone 2.6	105	501	-62	3	46	46	46	46	46																						
Zone 2.7	106	673	-65	3	44	44	44	44	44																						
Zone 2.8	106	866	-67	3	42	42	42	42	42																						
Activity 5 - Superstructure																															
Zone 2.1	105	829	-66	3	42	42	42	42	42	42	42	42	42	42	42	42	42														
Zone 2.2	105	659	-64	3	44	44	44	44	44	44	44	44	44	44	44	44	44														
Zone 2.3	106	499	-62	3	47	47	47	47	47	47	47	47	47	47	47	47	47														
Zone 2.4	106	350	-59	3	50	50	50	50	50	50	50	50	50	50	50	50	50														
Zone 2.5	106	345	-59	3	51	51	51	51	51	51	51	51	51	51	51	51	51														
Zone 2.6	106	501	-62	3	47	47	47	47	47	47	47	47	47	47	47	47	47														
Zone 2.7	105	672	-65	3	44	44	44	44	44	44	44	44	44	44	44	44	44														
Zone 2.8	105	866	-67	3	41	41	41	41	41	41	41	41	41	41	41	41	41														
<b>2) Zone 3</b>																															
Activity 5 - Superstructure	109	377	-60	3	52	52	52	52	52	52	52	52	52	52	52	52	52														
<b>3) Zone 4</b>																															
Activity 2 - Bored Piling	119	714	-65	3	57	57	57																								
Activity 3 - Excavation	118	714	-65	3	56	56	56	56	56	56	56																				
Activity 4 - Basement	114	714	-65	3	52	52	52	52	52	52	52																				
Activity 5 - Superstructure	117	727	-65	3	55								55	55	55	55	55														
<b>4) Zone 5</b>																															
Activity 1 - Site Formation	119	471	-61	3	61							61	61	61	61	61	61														
<b>5) Park Construction - Zone B</b>																															
Activity 1 - Site Formation	106	433	-61	3	48	48	48	48	48	48	48																				
<b>6) Park Construction - Zone C</b>																															
Activity 1 - Site Formation	121	487	-62	3	62							62	62	62	62	62	62														
<b>7) Flyover</b>																															
Activity 1 - Site Formation	106	318	-58	3	51	51	51	51																							
<b>8) East Concrete Batching Plant (Demolition)</b>																															
Activity 1 - Site Formation	97	704	-65	3	35	35	35	35																							
<b>9) West Concrete Batching Plant (Operation)</b>																															
Activity 1 - Site Formation	113	452	-61	3	55	55	55	55	55	55	55	55	55	55	55	55	55														
<b>10) West Pier (Optional)</b>																															
Activity 1 - Site Formation	112	826	-66	3	49	49	49	49	49	49	49	49	49	49	49	49	49														
<b>11) South Pier (Optional)</b>																															
Activity 1 - Site Formation	112	477	-62	3	54	54	54	54	54	54	54	54	54	54	54	54	54														
<b>12) Viewing Platform (Optional)</b>																															
Activity 1 - Site Formation	110	562	-63	3	50	50	50	50	50	50	50	50	50	50	50	50	50														
<b>Predicted Noise Level of this Project, dB (A)</b>															65	65	64	64	63	63	66	66	66	66	66	66	66	66	66	66	66
															<b>2017</b>		<b>2018</b>														
															Min	Max	Min	Max													

Note: Bold figure in shaded box denotes exceedance of relevant construction noise criteria  
Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

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 2</b>									
	<b>Activity 5 - Superstructure</b>									
	<b>Group 1</b>									
	Crane, tower (electric)	CNP 049	95	4	50%			98		
	Crane, mobile	EPD-01516	101	6	50%	-5	Movable Barrier	101		
	Crane Lorry 5.5 tonne < gross vehicle weight =< 38 tonne	[1]	105	6	50%	-5	Movable Barrier	105		
	Concrete pump, stationary/ lorry mounted	CNP 047	109	6	50%	-10	Movable Barrier	104		
	Poker, vibratory, hand-held (electric)	[1]	102	30	50%	-10	Movable Barrier	104		
	Bar bender and cutter (electric)	CNP 021	90	6	50%	-10	Movable Barrier	85		
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	6	100%	-15	Enclosure	88		
	Air compressor, air flow > 30m3/min	CNP 003	104	4	100%	-15	Enclosure	95		
	Concrete lorry mixer	CNP 044	109	4	50%	-5	Movable Barrier	107		
	Total SWL, dB (A)								112	
	<b>Group 2</b>									
	Drill/grinder, hand-held (electric)	CNP 065	98	15	30%	-10	Movable Barrier	95		
	Water pump (electric)	CNP 281	88	11	30%	-15	Enclosure	78		
	Excavator, wheeled/tracked	EPD-01230	99	11	30%	-5	Movable Barrier	99		
	Fork Lift Truck	[2]	104	11	30%	-5	Movable Barrier	104		
	Hoist, passenger/ material (electric)	CNP 122	95	11	30%			100		
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	1	100%			95		
	Total SWL, dB (A)								107	
	Maximum SWL, dB (A) of Activity 5								112	
	2	<b>Zone 4</b>								
		<b>Activity 5 - Superstructure</b>								
		Crane, tower (electric)	CNP 049	95	4	50%			98	
		Crane, mobile/ barge mounted (diesel)	CNP 048	112	8	50%	-5	Movable Barrier	113	
		Crane Lorry 5.5 tonne < gross vehicle weight =< 38 tonne	[1]	105	8	50%	-5	Movable Barrier	106	
		Concrete pump, stationary/ lorry mounted	CNP 047	109	8	50%	-10	Movable Barrier	105	
		Poker, vibratory, hand-held (electric)	[1]	102	40	50%	-10	Movable Barrier	105	
		Bar bender and cutter (electric)	CNP 021	90	8	50%	-10	Movable Barrier	86	
Generator, super silenced, 70 dB(A) at 7 m		CNP 103	95	9	100%	-15	Enclosure	90		
Air compressor, air flow > 30m3/min		CNP 003	104	4	100%	-15	Enclosure	95		
Concrete lorry mixer		CNP 044	109	8	50%	-5	Movable Barrier	110		
Drill/grinder, hand-held (electric)		CNP 065	98	20	30%	-10	Movable Barrier	96		
Water pump (electric)		CNP 281	88	14	30%	-15	Enclosure	79		
Excavator/ loader, wheeled/ tracked		CNP 081	112	14	30%	-5	Movable Barrier	113		
Fork Lift Truck		[2]	104	14	30%	-5	Movable Barrier	105		
Hoist, passenger/ material (electric)		CNP 122	95	14	30%			101		
Total SWL, dB (A)								118		
3		<b>Zone 5</b>								
		<b>Activity 1 - Site Formation</b>								
		Breaker, excavator mounted (pneumatic)	CNP 027	122	2	60%	-5	Movable Barrier	118	
		Dump truck	CNP 067	117	2	60%	-5	Movable Barrier	113	
		Total SWL, dB (A)								119
		<b>Activity 2 - Foundation Works</b>								
		Crane, mobile	EPD-01516	101	2	60%	-5	Movable Barrier	97	
		Excavator/ loader, wheeled/ tracked	CNP 081	112	2	30%	-5	Movable Barrier	105	
		Piling Rig	[2]	112	2	60%	-10	Fabric	103	
	Drill Rig	[1]	110	2	60%	-10	Fabric	101		
	Excavator/ loader, wheeled/ tracked	CNP 081	112	2	60%			113		
	Piling, large diameter bored, grab and chisel	CNP 164	115	2	60%	-10	Fabric	106		
	Piling, large diameter bored, reverse circulation drill	CNP 166	100	2	60%	-10	Fabric	91		
	Piling, large diameter bored, oscillator	CNP 165	115	2	60%	-10	Fabric	106		
	Air compressor, air flow > 30m3/min	CNP 003	104	2	100%	-15	Enclosure	92		
	Grout Mixer	[1]	90	2	60%	-10	Movable Barrier	81		
	Grout Pump	[1]	105	2	60%	-10	Movable Barrier	96		
	Bar bender and cutter (electric)	CNP 021	90	2	60%	-10	Movable Barrier	81		
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	2	100%	-15	Enclosure	83		
	Dump truck	CNP 067	117	1	30%	-5	Movable Barrier	107		
	Concrete lorry mixer	CNP 044	109	1	60%	-5	Movable Barrier	102		
	Welding Set	[2]	78	2	60%	-10	Movable Barrier	69		
	Total SWL, dB (A)								116	
	<b>Activity 3 - Superstructure</b>									
	Crane, tower (electric)	CNP 049	95	1	50%			92		
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	2	50%	-5	Movable Barrier	107		
	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	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%	-10	Movable Barrier	78		
	Excavator/ loader, wheeled/ tracked	CNP 081	112	3	30%	-5	Movable Barrier	107		
	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)								112	

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)		
4	<b>Park Construction - Zone C</b>									
	Dump truck, 5.5 tonne < gross vehicle weight =< 38 tonne	[1]	105	4	60%	-5	Movable Barrier	104		
	Crane, mobile	EPD-01516	101	4	60%	-5	Movable Barrier	100		
	Excavator/ loader, wheeled/ tracked	CNP 081	112	4	60%	-5	Movable Barrier	111		
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	4	100%	-15	Enclosure	86		
	Lorry	CNP 141	112	4	60%	-5	Movable Barrier	111		
								Total SWL, dB (A)	114	
5	<b>West Concrete Batching Plant (Operation)</b>									
	Excavator/ loader, wheeled/ tracked	CNP 081	112	2	60%			113		
	Concrete mixer (electric)	CNP 045	96	2	60%			97		
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	4	60%			99		
	Concrete mixer (petrol)	CNP 046	96	6	60%			102		
	Concrete lorry mixer	CNP 044	109	4	60%			113		
	Batching plant	CNP 022	108	2	60%			109		
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	4	60%			106		
	Dump truck, 5.5 tonne < gross vehicle weight =< 38 tonne	[1]	105	2	30%			103		
								Total SWL, dB (A)	117	
6/7	<b>Pier Construction (Optional)</b>									
	<b>Group 1</b>									
	Piling, large diameter bored, reverse circulation drill	CNP 166	100	1	100%			100		
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	1	60%			110		
	Tug boat	CNP 221	110	1	60%			108		
								Total SWL, dB (A)	112	
	<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%			105		
	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)	113	
	<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%			105		
	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%			107		
	Tug boat	CNP 221	110	1	60%			108		
								Total SWL, dB (A)	114	
								Maximum SWL, dB (A)	114	
	8	<b>Viewing Platform (Optional)</b>								
		<b>Group 1</b>								
		Piling, large diameter bored, reverse circulation drill	CNP 166	100	1	100%			100	
		Crane, mobile/ barge mounted (diesel)	CNP 048	112	1	80%	-5	Movable Barrier	106	
		Tug boat	CNP 221	110	1	60%			108	
									Total SWL, dB (A)	110
		<b>Group 2</b>								
		Crane, mobile/ barge mounted (diesel)	CNP 048	112	2	100%	-5	Movable Barrier	110	
							Total SWL, dB (A)	110		
							Maximum SWL, dB (A)	110		

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)

**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	Facade Correction, dB(A)	Calculated SPL, dB(A)	2018												2019		
						4	5	6	7	8	9	10	11	12	1	2	3			
<b>1) Zone 2</b>																				
Activity 5 - Superstructure	112	87	-47	3	68	68	68	68	68	68	68	68	68	68	68	68	68			
<b>2) Zone 4</b>																				
Activity 5 - Superstructure	118	668	-64	3	57	57	57	57	57	57	57	57	57	57	57	57	57			
<b>3) Zone 5</b>																				
Activity 1 - Site Formation	119	407	-60	3	62	62														
Activity 2 - Foundation Works	116	407	-60	3	59		59	59	59	59	59	59	59							
Activity 3 - Superstructure	112	407	-60	3	55									55	55	55	55			
<b>4) Park Construction - Zone C</b>	114	432	-61	3	57	57	57	57	57	57	57	57	57	57	57	57	57			
<b>5) West Concrete Batching Plant (Operation)</b>	117	506	-62	3	58	58	58	58	58	58	58	58	58	58	58	58	58			
<b>6) West Pier (Optional)</b>	114	846	-67	3	50	50	50	50	50	50	50	50	50	50	50	50	50			
<b>7) South Pier (Optional)</b>	114	347	-59	3	58	58	58	58	58	58	58	58	58	58	58	58	58			
<b>8) Floating 'Art' Pontoons (Optional)</b>	110	342	-59	3	55	55	55	55	55	55	55	55	55	55	55	55	55			
<b>Predicted Noise Level of this Project, dB (A)</b>						70	70	70	70	70	70	70	70	70	70	70	70			
															<b>2018</b>		<b>2019</b>			
															Min	Max	Min	Max		
															70	70	70	70		

Note: **Bold** figure in shaded box denotes exceedance of relevant construction noise criteria  
Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

**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	Facade Correction, dB(A)	Calculated SPL, dB(A)	2018												2019		
						4	5	6	7	8	9	10	11	12	1	2	3			
<b>1) Zone 2</b>																				
Activity 5 - Superstructure	112	140	-51	3	64	64	64	64	64	64	64	64	64	64	64	64	64			
<b>2) Zone 4</b>																				
Activity 5 - Superstructure	118	577	-63	3	58	58	58	58	58	58	58	58	58	58	58	58	58			
<b>3) Zone 5</b>																				
Activity 1 - Site Formation	119	321	-58	3	64	64														
Activity 2 - Foundation Works	116	321	-58	3	61		61	61	61	61	61	61	61							
Activity 3 - Superstructure	112	321	-58	3	57									57	57	57	57			
<b>4) Park Construction - Zone C</b>	114	337	-59	3	59	59	59	59	59	59	59	59	59	59	59	59	59			
<b>5) West Concrete Batching Plant (Operation)</b>	117	419	-60	3	60	60	60	60	60	60	60	60	60	60	60	60	60			
<b>6) West Pier (Optional)</b>	114	756	-66	3	51	51	51	51	51	51	51	51	51	51	51	51	51			
<b>7) South Pier (Optional)</b>	114	327	-58	3	58	58	58	58	58	58	58	58	58	58	58	58	58			
<b>8) Floating 'Art' Pontoons (Optional)</b>	110	412	-60	3	53	53	53	53	53	53	53	53	53	53	53	53	53			
<b>Predicted Noise Level of this Project, dB (A)</b>						69	68	68	68	68	68	68	68	68	68	68	68			
															<b>2018</b>		<b>2019</b>			
															Min	Max	Min	Max		
															68	69	68	68		

Note: **Bold** figure in shaded box denotes exceedance of relevant construction noise criteria  
Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

**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	Facade Correction, dB(A)	Calculated SPL, dB(A)	2018												2019		
						4	5	6	7	8	9	10	11	12	1	2	3			
<b>1) Zone 2</b>																				
Activity 5 - Superstructure	112	104	-48	3	66	66	66	66	66	66	66	66	66	66	66	66	66			
<b>2) Zone 4</b>																				
Activity 5 - Superstructure	118	610	-64	3	58	58	58	58	58	58	58	58	58	58	58	58	58			
<b>3) Zone 5</b>																				
Activity 1 - Site Formation	119	498	-62	3	60	60														
Activity 2 - Foundation Works	116	498	-62	3	57		57	57	57	57	57	57	57							
Activity 3 - Superstructure	112	498	-62	3	53									53	53	53	53			
<b>4) Park Construction - Zone C</b>																				
Activity 3 - Superstructure	114	542	-63	3	55	55	55	55	55	55	55	55	55	55	55	55	55			
<b>5) West Concrete Batching Plant (Operation)</b>																				
Activity 3 - Superstructure	117	598	-64	3	57	57	57	57	57	57	57	57	57	57	57	57	57			
<b>6) West Pier (Optional)</b>																				
Activity 3 - Superstructure	114	936	-67	3	49	49	49	49	49	49	49	49	49	49	49	49	49			
<b>7) South Pier (Optional)</b>																				
Activity 3 - Superstructure	114	396	-60	3	57	57	57	57	57	57	57	57	57	57	57	57	57			
<b>8) Floating 'Art' pontoons (Optional)</b>																				
Activity 3 - Superstructure	110	297	-57	3	56	56	56	56	56	56	56	56	56	56	56	56	56			
<b>Predicted Noise Level of this Project, dB (A)</b>						69	69	69	69	69	69	69	69	69	69	69	69			
														<b>2018</b>		<b>2019</b>				
														<b>Min</b>	<b>Max</b>	<b>Min</b>	<b>Max</b>			
														68	69	68	68			

Note: Bold figure in shaded box denotes exceedance of relevant construction noise criteria  
Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.



**Mitigated Construction Noise Impact**

**NSR: RD (Residential Development next to Austin Station)**

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB	Facade Correction, dB(A)	Calculated SPL, dB(A)	2018												2019																				
						4	5	6	7	8	9	10	11	12	1	2	3																					
<b>1) Zone 2</b>																																						
Activity 5 - Superstructure	112	216	-55	3	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60														
<b>2) Zone 4</b>																																						
Activity 5 - Superstructure	118	1217	-70	3	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52														
<b>3) Zone 5</b>																																						
Activity 1 - Site Formation	119	981	-68	3	54	54																																
Activity 2 - Foundation Works	116	981	-68	3	51		51	51	51	51	51	51	51	51																								
Activity 3 - Superstructure	112	981	-68	3	47															47	47	47	47															
<b>4) Park Construction - Zone C</b>																																						
Activity 5 - Superstructure	114	966	-68	3	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50														
<b>5) West Concrete Batching Plant (Operation)</b>																																						
Activity 5 - Superstructure	117	1056	-68	3	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52														
<b>6) West Pier (Optional)</b>																																						
Activity 5 - Superstructure	114	1391	-71	3	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46														
<b>7) South Pier (Optional)</b>																																						
Activity 5 - Superstructure	114	771	-66	3	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51														
<b>8) Floating 'Art' pontoons (Optional)</b>																																						
Activity 5 - Superstructure	110	447	-61	3	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52														
<b>Predicted Noise Level of this Project, dB (A)</b>															63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63
															<b>2018</b>		<b>2019</b>																					
															<b>Min</b>	<b>Max</b>	<b>Min</b>	<b>Max</b>																				

Note: Bold figure in shaded box denotes exceedance of relevant construction noise criteria  
Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

**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	Facade Correction, dB(A)	Calculated SPL, dB(A)	2018												2019		
						4	5	6	7	8	9	10	11	12	1	2	3			
<b>1) Zone 2</b>																				
Activity 5 - Superstructure	112	255	-56	3	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	
<b>2) Zone 4</b>																				
Activity 5 - Superstructure	118	1302	-70	3	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	
<b>3) Zone 5</b>																				
Activity 1 - Site Formation	119	1040	-68	3	54	54														
Activity 2 - Foundation Works	116	1040	-68	3	51		51	51	51	51	51	51	51							
Activity 3 - Superstructure	112	1040	-68	3	47												47	47	47	
<b>4) Park Construction - Zone C</b>																				
Activity 3 - Superstructure	114	1054	-68	3	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	
<b>5) West Concrete Batching Plant (Operation)</b>																				
Activity 3 - Superstructure	117	1140	-69	3	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	
<b>6) West Pier (Optional)</b>																				
Activity 3 - Superstructure	114	1475	-71	3	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	
<b>7) South Pier (Optional)</b>																				
Activity 3 - Superstructure	114	845	-67	3	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	
<b>8) Floating 'Art' pontoons (Optional)</b>																				
Activity 3 - Superstructure	110	508	-62	3	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	
<b>Predicted Noise Level of this Project, dB (A)</b>						62	62	62	62	62	62	62	62	62	62	62	62	62	62	62
															<b>2018</b>		<b>2019</b>			
															<b>Min</b>	<b>Max</b>	<b>Min</b>	<b>Max</b>		
															61	62	61	61		

Note: Bold figure in shaded box denotes exceedance of relevant construction noise criteria  
Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

**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	Facade Correction, dB(A)	Calculated SPL, dB(A)	2018												2019		
						4	5	6	7	8	9	10	11	12	1	2	3			
<b>1) Zone 2</b>																				
Activity 5 - Superstructure	112	259	-56	3	59	59	59	59	59	59	59	59	59	59	59	59	59	59		
<b>2) Zone 4</b>																				
Activity 5 - Superstructure	118	1284	-70	3	51	51	51	51	51	51	51	51	51	51	51	51	51	51		
<b>3) Zone 5</b>																				
Activity 1 - Site Formation	119	1021	-68	3	54	54														
Activity 2 - Foundation Works	116	1021	-68	3	51		51	51	51	51	51	51	51							
Activity 3 - Superstructure	112	1021	-68	3	47											47	47	47	47	
<b>4) Park Construction - Zone C</b>																				
Activity 3 - Superstructure	114	1060	-69	3	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	
<b>5) West Concrete Batching Plant (Operation)</b>																				
Activity 3 - Superstructure	117	1136	-69	3	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	
<b>6) West Pier (Optional)</b>																				
Activity 3 - Superstructure	114	1451	-71	3	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	
<b>7) South Pier (Optional)</b>																				
Activity 3 - Superstructure	114	786	-66	3	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	
<b>8) Floating 'Art' pontoons (Optional)</b>																				
Activity 3 - Superstructure	110	422	-61	3	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	
<b>Predicted Noise Level of this Project, dB (A)</b>						62	62	62	62	62	62	62	62	62	62	62	62	62	62	62
															<b>2018</b>		<b>2019</b>			
															<b>Min</b>	<b>Max</b>	<b>Min</b>	<b>Max</b>		
															62	62	62	62		

Note: Bold figure in shaded box denotes exceedance of relevant construction noise criteria  
Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

**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	Facade Correction, dB(A)	Calculated SPL, dB(A)	2018												2019		
						4	5	6	7	8	9	10	11	12	1	2	3			
<b>1) Zone 2</b>																				
Activity 5 - Superstructure	112	195	-54	3	61	61	61	61	61	61	61	61	61	61	61	61	61	61		
<b>2) Zone 4</b>																				
Activity 5 - Superstructure	118	1279	-70	3	51	51	51	51	51	51	51	51	51	51	51	51	51	51		
<b>3) Zone 5</b>																				
Activity 1 - Site Formation	119	1038	-68	3	54	54														
Activity 2 - Foundation Works	116	1038	-68	3	51		51	51	51	51	51	51	51							
Activity 3 - Superstructure	112	1038	-68	3	47											47	47	47		
<b>4) Park Construction - Zone C</b>																				
Activity 3 - Superstructure	114	1071	-69	3	49	49	49	49	49	49	49	49	49	49	49	49	49	49		
<b>5) West Concrete Batching Plant (Operation)</b>																				
Activity 3 - Superstructure	117	1151	-69	3	51	51	51	51	51	51	51	51	51	51	51	51	51	51		
<b>6) West Pier (Optional)</b>																				
Activity 3 - Superstructure	114	1471	-71	3	45	45	45	45	45	45	45	45	45	45	45	45	45	45		
<b>7) South Pier (Optional)</b>																				
Activity 3 - Superstructure	114	816	-66	3	50	50	50	50	50	50	50	50	50	50	50	50	50	50		
<b>8) Floating 'Art' pontoons (Optional)</b>																				
Activity 3 - Superstructure	110	462	-61	3	52	52	52	52	52	52	52	52	52	52	52	52	52	52		
<b>Predicted Noise Level of this Project, dB (A)</b>						63	63	63	63	63	63	63	63	63	63	63	63	63	63	
															<b>2018</b>		<b>2019</b>			
															<b>Min</b>	<b>Max</b>	<b>Min</b>	<b>Max</b>		
															63	63	63	63		

Note: **Bold** figure in shaded box denotes exceedance of relevant construction noise criteria  
Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

**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	Facade Correction, dB(A)	Calculated SPL, dB(A)	2018												2019		
						4	5	6	7	8	9	10	11	12	1	2	3			
<b>1) Zone 2</b>																				
Activity 5 - Superstructure	112	149	-51	3	63	63	63	63	63	63	63	63	63	63	63	63	63	63		
<b>2) Zone 4</b>																				
Activity 5 - Superstructure	118	1292	-70	3	51	51	51	51	51	51	51	51	51	51	51	51	51	51		
<b>3) Zone 5</b>																				
Activity 1 - Site Formation	119	1022	-68	3	54	54														
Activity 2 - Foundation Works	116	1022	-68	3	51		51	51	51	51	51	51	51							
Activity 3 - Superstructure	112	1022	-68	3	47											47	47	47		
<b>4) Park Construction - Zone C</b>																				
Activity 3 - Superstructure	114	1079	-69	3	49	49	49	49	49	49	49	49	49	49	49	49	49	49		
<b>5) West Concrete Batching Plant (Operation)</b>																				
Activity 3 - Superstructure	117	1150	-69	3	51	51	51	51	51	51	51	51	51	51	51	51	51	51		
<b>6) West Pier (Optional)</b>																				
Activity 3 - Superstructure	114	1455	-71	3	45	45	45	45	45	45	45	45	45	45	45	45	45	45		
<b>7) South Pier (Optional)</b>																				
Activity 3 - Superstructure	114	780	-66	3	51	51	51	51	51	51	51	51	51	51	51	51	51	51		
<b>8) Floating 'Art' pontoons (Optional)</b>																				
Activity 3 - Superstructure	110	398	-60	3	53	53	53	53	53	53	53	53	53	53	53	53	53	53		
<b>Predicted Noise Level of this Project, dB (A)</b>						65	65	65	65	65	65	65	65	65	65	65	65	65	65	
															<b>2018</b>		<b>2019</b>			
															<b>Min</b>	<b>Max</b>	<b>Min</b>	<b>Max</b>		
															65	65	65	65		

Note: Bold figure in shaded box denotes exceedance of relevant construction noise criteria  
Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

**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	Facade Correction, dB(A)	Calculated SPL, dB(A)	2018												2019														
						4	5	6	7	8	9	10	11	12	1	2	3															
<b>1) Zone 2</b>																																
Activity 5 - Superstructure	112	152	-52	3	63	63	63	63	63	63	63	63	63	63	63	63	63	63														
<b>2) Zone 4</b>																																
Activity 5 - Superstructure	118	1298	-70	3	51	51	51	51	51	51	51	51	51	51	51	51	51	51														
<b>3) Zone 5</b>																																
Activity 1 - Site Formation	119	1026	-68	3	54	54																										
Activity 2 - Foundation Works	116	1026	-68	3	51		51	51	51	51	51	51	51																			
Activity 3 - Superstructure	112	1026	-68	3	47											47	47	47														
<b>4) Park Construction - Zone C</b>																																
Activity 3 - Superstructure	114	1080	-69	3	49	49	49	49	49	49	49	49	49	49	49	49	49	49														
<b>5) West Concrete Batching Plant (Operation)</b>																																
Activity 3 - Superstructure	117	1155	-69	3	51	51	51	51	51	51	51	51	51	51	51	51	51	51														
<b>6) West Pier (Optional)</b>																																
Activity 3 - Superstructure	114	1455	-71	3	45	45	45	45	45	45	45	45	45	45	45	45	45	45														
<b>7) South Pier (Optional)</b>																																
Activity 3 - Superstructure	114	775	-66	3	51	51	51	51	51	51	51	51	51	51	51	51	51	51														
<b>8) Floating 'Art' pontoons (Optional)</b>																																
Activity 3 - Superstructure	110	400	-60	3	53	53	53	53	53	53	53	53	53	53	53	53	53	53														
<b>Predicted Noise Level of this Project, dB (A)</b>															65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65
															<b>2018</b>		<b>2019</b>															
															<b>Min</b>	<b>Max</b>	<b>Min</b>	<b>Max</b>														

Note: **Bold** figure in shaded box denotes exceedance of relevant construction noise criteria  
Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

**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	Facade Correction, dB(A)	Calculated SPL, dB(A)	2018												2019		
						4	5	6	7	8	9	10	11	12	1	2	3			
<b>1) Zone 2</b>																				
Activity 5 - Superstructure	112	54	-43	3	72	72	72	72	72	72	72	72	72	72	72	72	72			
<b>2) Zone 4</b>																				
Activity 5 - Superstructure	118	1192	-70	3	52	52	52	52	52	52	52	52	52	52	52	52	52			
<b>3) Zone 5</b>																				
Activity 1 - Site Formation	119	923	-67	3	55	55														
Activity 2 - Foundation Works	116	923	-67	3	52		52	52	52	52	52	52	52							
Activity 3 - Superstructure	112	923	-67	3	48										48	48	48			
<b>4) Park Construction - Zone C</b>																				
Activity 3 - Superstructure	114	982	-68	3	50	50	50	50	50	50	50	50	50	50	50	50	50			
<b>5) West Concrete Batching Plant (Operation)</b>																				
Activity 3 - Superstructure	117	1050	-68	3	52	52	52	52	52	52	52	52	52	52	52	52	52			
<b>6) West Pier (Optional)</b>																				
Activity 3 - Superstructure	114	1350	-71	3	46	46	46	46	46	46	46	46	46	46	46	46	46			
<b>7) South Pier (Optional)</b>																				
Activity 3 - Superstructure	114	680	-65	3	52	52	52	52	52	52	52	52	52	52	52	52	52			
<b>8) Floating 'Art' pontoons (Optional)</b>																				
Activity 3 - Superstructure	110	291	-57	3	56	56	56	56	56	56	56	56	56	56	56	56	56			
<b>Predicted Noise Level of this Project, dB (A)</b>						72	72	72	72	72	72	72	72	72	72	72	72			
														<b>2018</b>		<b>2019</b>				
														<b>Min</b>	<b>Max</b>	<b>Min</b>	<b>Max</b>			
														72	72	72	72			

Note: Bold figure in shaded box denotes exceedance of relevant construction noise criteria  
Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

**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	Facade Correction, dB(A)	Calculated SPL, dB(A)	2018												2019		
						4	5	6	7	8	9	10	11	12	1	2	3			
<b>1) Zone 2</b>																				
Activity 5 - Superstructure	112	287	-57	3	58	58	58	58	58	58	58	58	58	58	58	58	58			
<b>2) Zone 4</b>																				
Activity 5 - Superstructure	118	727	-65	3	56	56	56	56	56	56	56	56	56	56	56	56	56			
<b>3) Zone 5</b>																				
Activity 1 - Site Formation	119	470	-61	3	61	61														
Activity 2 - Foundation Works	116	470	-61	3	58		58	58	58	58	58	58								
Activity 3 - Superstructure	112	470	-61	3	54									54	54	54	54			
<b>4) Park Construction - Zone C</b>	114	487	-62	3	56	56	56	56	56	56	56	56	56	56	56	56	56			
<b>5) West Concrete Batching Plant (Operation)</b>	117	451	-61	3	59	59	59	59	59	59	59	59	59	59	59	59	59			
<b>6) West Pier (Optional)</b>	114	826	-66	3	50	50	50	50	50	50	50	50	50	50	50	50	50			
<b>7) South Pier (Optional)</b>	114	476	-62	3	55	55	55	55	55	55	55	55	55	55	55	55	55			
<b>8) Floating 'Art' pontoons (Optional)</b>	110	561	-63	3	50	50	50	50	50	50	50	50	50	50	50	50	50			
<b>Predicted Noise Level of this Project, dB (A)</b>						66	65	65	65	65	65	65	65	65	65	65	65	65		
															<b>2018</b>		<b>2019</b>			
															Min	Max	Min	Max		
															65	66	65	65		

Note: **Bold** figure in shaded box denotes exceedance of relevant construction noise criteria  
Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.



**Mitigated Construction Noise Impact**

**NSR: P7**

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB	Facade Correction, dB(A)	Calculated SPL, dB(A)	2018												2019		
						4	5	6	7	8	9	10	11	12	1	2	3			
<b>1) Zone 2</b>																				
Activity 5 - Superstructure	112	39	-40	3	75	75	75	75	75	75	75	75	75	75	75	75	75			
<b>2) Zone 4</b>																				
Activity 5 - Superstructure	118	1109	-69	3	52	52	52	52	52	52	52	52	52	52	52	52	52			
<b>3) Zone 5</b>																				
Activity 1 - Site Formation	119	845	-67	3	55	55														
Activity 2 - Foundation Works	116	845	-67	3	52		52	52	52	52	52	52	52							
Activity 3 - Superstructure	112	845	-67	3	48										48	48	48			
<b>4) Park Construction - Zone C</b>	114	897	-67	3	50	50	50	50	50	50	50	50	50	50	50	50	50			
<b>5) West Concrete Batching Plant (Operation)</b>	117	958	-68	3	53	53	53	53	53	53	53	53	53	53	53	53	53			
<b>6) West Pier (Optional)</b>	114	1265	-70	3	46	46	46	46	46	46	46	46	46	46	46	46	46			
<b>7) South Pier (Optional)</b>	114	606	-64	3	53	53	53	53	53	53	53	53	53	53	53	53	53			
<b>8) Floating 'Art' pontoons (Optional)</b>	110	257	-56	3	57	57	57	57	57	57	57	57	57	57	57	57	57			
<b>Predicted Noise Level of this Project, dB (A)</b>						75	75	75	75	75	75	75	75	75	75	75	75			
															<b>2018</b>		<b>2019</b>			
															Min	Max	Min	Max		
															75	75	75	75		

Note: Bold figure in shaded box denotes exceedance of relevant construction noise criteria  
Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

**Mitigated Construction Noise Impact**

**NSR: P13**

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB	Facade Correction, dB(A)	Calculated SPL, dB(A)	2018												2019		
						4	5	6	7	8	9	10	11	12	1	2	3			
<b>1) Zone 2</b>																				
Activity 5 - Superstructure	112	47	-41	3	73	73	73	73	73	73	73	73	73	73	73	73	73			
<b>2) Zone 4</b>																				
Activity 5 - Superstructure	118	958	-68	3	54	54	54	54	54	54	54	54	54	54	54	54	54			
<b>3) Zone 5</b>																				
Activity 1 - Site Formation	119	693	-65	3	57	57														
Activity 2 - Foundation Works	116	693	-65	3	54		54	54	54	54	54	54	54							
Activity 3 - Superstructure	112	693	-65	3	50										50	50	50			
<b>4) Park Construction - Zone C</b>	114	759	-66	3	52	52	52	52	52	52	52	52	52	52	52	52	52			
<b>5) West Concrete Batching Plant (Operation)</b>	117	811	-66	3	54	54	54	54	54	54	54	54	54	54	54	54	54			
<b>6) West Pier (Optional)</b>	114	1115	-69	3	48	48	48	48	48	48	48	48	48	48	48	48	48			
<b>7) South Pier (Optional)</b>	114	456	-61	3	55	55	55	55	55	55	55	55	55	55	55	55	55			
<b>8) Floating 'Art' pontoons (Optional)</b>	110	134	-51	3	63	63	63	63	63	63	63	63	63	63	63	63	63			
<b>Predicted Noise Level of this Project, dB (A)</b>						74	74	74	74	74	74	74	74	74	74	74	74			
															<b>2018</b>		<b>2019</b>			
															Min	Max	Min	Max		
															74	74	74	74		

Note: Bold figure in shaded box denotes exceedance of relevant construction noise criteria  
Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

**Mitigated Construction Noise Impact**

**NSR: P21**

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB	Facade Correction, dB(A)	Calculated SPL, dB(A)	2018												2019		
						4	5	6	7	8	9	10	11	12	1	2	3			
<b>1) Zone 2</b>																				
Activity 5 - Superstructure	112	40	-40	3	75	75	75	75	75	75	75	75	75	75	75	75	75			
<b>2) Zone 4</b>																				
Activity 5 - Superstructure	118	755	-66	3	56	56	56	56	56	56	56	56	56	56	56	56	56			
<b>3) Zone 5</b>																				
Activity 1 - Site Formation	119	490	-62	3	60	60														
Activity 2 - Foundation Works	116	490	-62	3	57		57	57	57	57	57	57	57							
Activity 3 - Superstructure	112	490	-62	3	53										53	53	53			
<b>4) Park Construction - Zone C</b>																				
Activity 3 - Superstructure	114	586	-63	3	54	54	54	54	54	54	54	54	54	54	54	54	54			
<b>5) West Concrete Batching Plant (Operation)</b>																				
Activity 3 - Superstructure	117	626	-64	3	56	56	56	56	56	56	56	56	56	56	56	56	56			
<b>6) West Pier (Optional)</b>																				
Activity 3 - Superstructure	114	910	-67	3	49	49	49	49	49	49	49	49	49	49	49	49	49			
<b>7) South Pier (Optional)</b>																				
Activity 3 - Superstructure	114	257	-56	3	60	60	60	60	60	60	60	60	60	60	60	60	60			
<b>8) Floating 'Art' pontoons (Optional)</b>																				
Activity 3 - Superstructure	110	148	-51	3	62	62	62	62	62	62	62	62	62	62	62	62	62			
<b>Predicted Noise Level of this Project, dB (A)</b>						75	75	75	75	75	75	75	75	75	75	75	75			
														<b>2018</b>		<b>2019</b>				
														Min	Max	Min	Max			
														75	75	75	75			

Note: **Bold** figure in shaded box denotes exceedance of relevant construction noise criteria  
Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

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 2</b>								
	<b>Activity 5 - Superstructure</b>								
	<b>Group 1</b>								
	Crane, tower (electric)	CNP 049	95	3	50%			97	
	Crane, mobile	EPD-01516	101	4	50%	-5	Movable Barrier	99	
	Crane Lorry 5.5 tonne < gross vehicle weight =< 38 tonne	[1]	105	4	50%	-5	Movable Barrier	103	
	Concrete pump, stationary/ lorry mounted	CNP 047	109	4	50%	-10	Movable Barrier	102	
	Poker, vibratory, hand-held (electric)	[1]	102	16	50%	-10	Movable Barrier	101	
	Bar bender and cutter (electric)	CNP 021	90	4	50%	-10	Movable Barrier	83	
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	4	100%	-15	Enclosure	86	
	Air compressor, air flow > 30m3/min	CNP 003	104	4	100%	-15	Enclosure	95	
	Concrete lorry mixer	CNP 044	109	2	50%	-5	Movable Barrier	104	
	Total SWL, dB (A)								110
	<b>Group 1</b>								
	Drill/grinder, hand-held (electric)	CNP 065	98	10	30%	-10	Movable Barrier	93	
	Water pump (electric)	CNP 281	88	8	30%	-15	Enclosure	77	
	Excavator, wheeled/tracked	EPD-01230	99	8	30%	-5	Movable Barrier	98	
	Fork Lift Truck	[2]	104	8	30%	-5	Movable Barrier	103	
	Hoist, passenger/ material (electric)	CNP 122	95	8	30%			99	
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	1	100%			95	
	Total SWL, dB (A)								106
	Maximum SWL, dB (A)								110
	2	<b>Zone 4</b>							
		<b>Activity 5 - Superstructure</b>							
		Crane, tower (electric)	CNP 049	95	4	50%			98
		Crane, mobile	EPD-01516	101	8	50%	-5	Movable Barrier	102
		Crane Lorry 5.5 tonne < gross vehicle weight =< 38 tonne	[1]	105	8	50%	-5	Movable Barrier	106
Concrete pump, stationary/ lorry mounted		CNP 047	109	8	50%	-10	Movable Barrier	105	
Poker, vibratory, hand-held (electric)		[1]	102	40	50%	-10	Movable Barrier	105	
Bar bender and cutter (electric)		CNP 021	90	8	50%	-10	Movable Barrier	86	
Generator, super silenced, 70 dB(A) at 7 m		CNP 103	95	8	100%	-15	Enclosure	89	
Air compressor, air flow > 30m3/min		CNP 003	104	4	100%	-15	Enclosure	95	
Concrete lorry mixer		CNP 044	109	8	50%	-5	Movable Barrier	110	
Drill/grinder, hand-held (electric)		CNP 065	98	20	30%	-10	Movable Barrier	96	
Water pump (electric)		CNP 281	88	14	30%	-15	Enclosure	79	
Excavator/ loader, wheeled/ tracked		CNP 081	112	14	30%	-5	Movable Barrier	113	
Fork Lift Truck		[2]	104	14	30%	-5	Movable Barrier	105	
Hoist, passenger/ material (electric)		CNP 122	95	14	30%			101	
Total SWL, dB (A)								117	
3		<b>Zone 5</b>							
		<b>Activity 3 - Superstructure</b>							
		Crane, tower (electric)	CNP 049	95	1	50%			92
		Crane, mobile/ barge mounted (diesel)	CNP 048	112	2	50%			112
		Crane Lorry 5.5 tonne < gross vehicle weight =< 38 tonne	[1]	105	2	50%			105
		Concrete pump, stationary/ lorry mounted	CNP 047	109	2	50%			109
		Poker, vibratory, hand-held (electric)	[1]	102	10	50%			109
		Bar bender and cutter (electric)	CNP 021	90	2	50%			90
		Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	2	100%			98
		Air compressor, air flow > 30m3/min	CNP 003	104	1	100%			104
	Concrete lorry mixer	CNP 044	109	2	50%			109	
	Drill/grinder, hand-held (electric)	CNP 065	98	5	30%			100	
	Water pump (electric)	CNP 281	88	3	30%			88	
	Excavator/ loader, wheeled/ tracked	CNP 081	112	3	30%			112	
	Fork Lift Truck	[2]	104	3	30%			104	
	Hoist, passenger/ material (electric)	CNP 122	95	3	30%			95	
	Total SWL, dB (A)								118
	4	<b>Park Construction - Zone C</b>							
		Dump truck, 5.5 tonne < gross vehicle weight =< 38 tonne	[1]	105	4	60%			109
		Crane, mobile	EPD-01516	101	4	60%			105
		Excavator/ loader, wheeled/ tracked	CNP 081	112	4	60%			116
		Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	4	100%			101
		Lorry	CNP 141	112	4	60%			116
	Total SWL, dB (A)								119
	5	<b>West Concrete Batching Plant (Operation)</b>							
		Excavator/ loader, wheeled/ tracked	CNP 081	112	2	60%			113
		Concrete mixer (electric)	CNP 045	96	2	60%			97
Generator, super silenced, 70 dB(A) at 7 m		CNP 103	95	4	60%			99	
Concrete mixer (petrol)		CNP 046	96	6	60%			102	
Concrete lorry mixer		CNP 044	109	4	60%			113	
Batching plant		CNP 022	108	2	60%			109	
Air compressor, air flow > 10m3/min and <= 30m3/min		CNP 002	102	4	60%			106	
Dump truck, 5.5 tonne < gross vehicle weight =< 38 tonne		[1]	105	2	30%			103	
Total SWL, dB (A)								117	

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)	
6/7	<b>Pier Construction (Optional)</b>								
	<b>Group 1</b>								
	Piling, large diameter bored, reverse circulation drill	CNP 166	100	1	100%			100	
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	1	60%			110	
	Tug boat	CNP 221	110	1	60%			108	
	Total SWL, dB (A)							<b>112</b>	
	<b>Group 2</b>								
	Concrete pump, stationary/ lorry mounted	CNP 047	109	2	100%			112	
	Concrete lorry mixer	CNP 044	109	4	60%			113	
	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%			105	
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	1	60%			110	
	Tug boat	CNP 221	110	1	60%			108	
	Total SWL, dB (A)							<b>117</b>	
	<b>Group 3</b>								
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	1	60%			110	
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	2	100%			105	
	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%			112	
	Concrete lorry mixer	CNP 044	109	2	60%			110	
	Poker, vibratory, hand-held (electric)	[1]	102	4	80%			107	
	Tug boat	CNP 221	110	1	60%			108	
	Total SWL, dB (A)							<b>117</b>	
	Maximum SWL, dB (A)							<b>117</b>	
	8	<b>Viewing Platform (Optional)</b>							
		<b>Group 1</b>							
		Piling, large diameter bored, reverse circulation drill	CNP 166	100	1	100%			100
		Crane, mobile/ barge mounted (diesel)	CNP 048	112	1	80%			111
		Tug boat	CNP 221	110	1	60%			108
		Total SWL, dB (A)							<b>113</b>
		<b>Group 2</b>							
		Crane, mobile/ barge mounted (diesel)	CNP 048	112	2	100%			115
Total SWL, dB (A)							<b>115</b>		
Maximum SWL, dB (A)							<b>115</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)

**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	Facade Correction, dB(A)	Calculated SPL, dB(A)	2019												2020		
						4	5	6	7	8	9	10	11	12	1	2	3			
<b>1) Zone 2</b>																				
Activity 5 - Superstructure	110	155	-52	3	61	61	61	61	61	61	61	61	61	61	61	61	61			
<b>2) Zone 4</b>																				
Activity 5 - Superstructure	117	668	-64	3	55	55	55	55	55	55	55	55	55	55	55	55	55			
<b>3) Zone 5</b>																				
Activity 3 - Superstructure	118	407	-60	3	61	61	61	61	61	61	61	61	61	61	61	61	61			
<b>4) Park Construction - Zone C</b>	119	432	-61	3	62	62	62	62	62	62	62									
<b>5) West Concrete Batching Plant (Operation)</b>	117	506	-62	3	58	58	58	58	58	58	58	58	58	58	58	58	58			
<b>6) West Pier (Optional)</b>	117	846	-67	3	54	54	54	54	54	54	54	54	54	54	54	54	54			
<b>7) South Pier (Optional)</b>	117	347	-59	3	62	62	62	62	62	62	62	62	62	62	62	62	62			
<b>8) Viewing Platform (Optional)</b>	115	342	-59	3	59	59	59	59	59	59	59	59	59	59	59	59	59			
<b>Predicted Noise Level of this Project, dB (A)</b>						69	69	69	69	69	69	68	68	68	68	68	68			
												<b>2019</b>		<b>2020</b>						
												<b>Min</b>	<b>Max</b>	<b>Min</b>	<b>Max</b>					
												68	69	68	68					

Note: **Bold** figure in shaded box denotes exceedance of relevant construction noise criteria  
Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

**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	Facade Correction, dB(A)	Calculated SPL, dB(A)	2019												2020		
						4	5	6	7	8	9	10	11	12	1	2	3			
<b>1) Zone 2</b>																				
Activity 5 - Superstructure	110	199	-54	3	59	59	59	59	59	59	59	59	59	59	59	59	59			
<b>2) Zone 4</b>																				
Activity 5 - Superstructure	117	577	-63	3	57	57	57	57	57	57	57	57	57	57	57	57	57			
<b>3) Zone 5</b>																				
Activity 3 - Superstructure	118	321	-58	3	63	63	63	63	63	63	63	63	63	63	63	63	63			
<b>4) Park Construction - Zone C</b>	119	337	-59	3	64	64	64	64	64	64	64									
<b>5) West Concrete Batching Plant (Operation)</b>	117	419	-60	3	60	60	60	60	60	60	60	60	60	60	60	60	60			
<b>6) West Pier (Optional)</b>	117	756	-66	3	55	55	55	55	55	55	55	55	55	55	55	55	55			
<b>7) South Pier (Optional)</b>	117	327	-58	3	62	62	62	62	62	62	62	62	62	62	62	62	62			
<b>8) Viewing Platform (Optional)</b>	115	412	-60	3	58	58	58	58	58	58	58	58	58	58	58	58	58			
<b>Predicted Noise Level of this Project, dB (A)</b>						70	70	70	70	70	70	70	68	68	68	68	68			
						<b>2019</b>		<b>2020</b>												
						Min		Max		Min		Max		Min		Max				
						68		70		68		68		68		68				

Note: **Bold** figure in shaded box denotes exceedance of relevant construction noise criteria  
Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

**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	Facade Correction, dB(A)	Calculated SPL, dB(A)	2019												2020		
						4	5	6	7	8	9	10	11	12	1	2	3			
<b>1) Zone 2</b>																				
Activity 5 - Superstructure	110	133	-50	3	62	62	62	62	62	62	62	62	62	62	62	62	62			
<b>2) Zone 4</b>																				
Activity 5 - Superstructure	117	610	-64	3	56	56	56	56	56	56	56	56	56	56	56	56	56			
<b>3) Zone 5</b>																				
Activity 3 - Superstructure	118	498	-62	3	59	59	59	59	59	59	59	59	59	59	59	59	59			
<b>4) Park Construction - Zone C</b>	119	542	-63	3	60	60	60	60	60	60	60	60	60	60	60	60	60			
<b>5) West Concrete Batching Plant (Operation)</b>	117	598	-64	3	57	57	57	57	57	57	57	57	57	57	57	57	57			
<b>6) West Pier (Optional)</b>	117	936	-67	3	53	53	53	53	53	53	53	53	53	53	53	53	53			
<b>7) South Pier (Optional)</b>	117	396	-60	3	60	60	60	60	60	60	60	60	60	60	60	60	60			
<b>8) Viewing Platform (Optional)</b>	115	297	-57	3	61	61	61	61	61	61	61	61	61	61	61	61	61			
<b>Predicted Noise Level of this Project, dB (A)</b>						68	68	68	68	68	68	68	68	68	68	68	68			
															<b>2019</b>		<b>2020</b>			
															<b>Min</b>	<b>Max</b>	<b>Min</b>	<b>Max</b>		
															68	68	68	68		

Note: **Bold** figure in shaded box denotes exceedance of relevant construction noise criteria  
Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.



**Mitigated Construction Noise Impact**

**NSR: RD (Residential Development next to Austin Station)**

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB	Facade Correction, dB(A)	Calculated SPL, dB(A)	2019												2020		
						4	5	6	7	8	9	10	11	12	1	2	3			
<b>1) Zone 2</b>																				
Activity 5 - Superstructure	110	216	-55	3	58	58	58	58	58	58	58	58	58	58	58	58	58			
<b>2) Zone 4</b>																				
Activity 5 - Superstructure	117	1217	-70	3	50	50	50	50	50	50	50	50	50	50	50	50	50			
<b>3) Zone 5</b>																				
Activity 3 - Superstructure	118	981	-68	3	53	53	53	53	53	53	53	53	53	53	53	53	53			
<b>4) Park Construction - Zone C</b>	119	966	-68	3	55	55	55	55	55	55	55									
<b>5) West Concrete Batching Plant (Operation)</b>	117	1056	-68	3	52	52	52	52	52	52	52	52	52	52	52	52	52			
<b>6) West Pier (Optional)</b>	117	1391	-71	3	50	50	50	50	50	50	50	50	50	50	50	50	50			
<b>7) South Pier (Optional)</b>	117	771	-66	3	55	55	55	55	55	55	55	55	55	55	55	55	55			
<b>8) Viewing Platform (Optional)</b>	115	447	-61	3	57	57	57	57	57	57	57	57	57	57	57	57	57			
<b>Predicted Noise Level of this Project, dB (A)</b>						64	64	64	64	64	64	64	63	63	63	63	63			
						<b>2019</b>		<b>2020</b>												
						Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max			
						63	64	63	63	63	63	63	63	63	63	63	63			

Note: **Bold** figure in shaded box denotes exceedance of relevant construction noise criteria  
Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

**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	Facade Correction, dB(A)	Calculated SPL, dB(A)	2019												2020		
						4	5	6	7	8	9	10	11	12	1	2	3			
<b>1) Zone 2</b>																				
Activity 5 - Superstructure	110	255	-56	3	56	56	56	56	56	56	56	56	56	56	56	56	56			
<b>2) Zone 4</b>																				
Activity 5 - Superstructure	117	1302	-70	3	50	50	50	50	50	50	50	50	50	50	50	50				
<b>3) Zone 5</b>																				
Activity 3 - Superstructure	118	1040	-68	3	53	53	53	53	53	53	53	53	53	53	53	53				
<b>4) Park Construction - Zone C</b>	119	1054	-68	3	54	54	54	54	54	54	54									
<b>5) West Concrete Batching Plant (Operation)</b>	117	1140	-69	3	51	51	51	51	51	51	51	51	51	51	51	51				
<b>6) West Pier (Optional)</b>	117	1475	-71	3	49	49	49	49	49	49	49	49	49	49	49	49				
<b>7) South Pier (Optional)</b>	117	845	-67	3	54	54	54	54	54	54	54	54	54	54	54	54				
<b>8) Viewing Platform (Optional)</b>	115	508	-62	3	56	56	56	56	56	56	56	56	56	56	56	56				
<b>Predicted Noise Level of this Project, dB (A)</b>						63	63	63	63	63	63	62	62	62	62	62				
												<b>2019</b>		<b>2020</b>						
												<b>Min</b>	<b>Max</b>	<b>Min</b>	<b>Max</b>					
												62	63	62	62					

Note: **Bold** figure in shaded box denotes exceedance of relevant construction noise criteria  
Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

**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	Facade Correction, dB(A)	Calculated SPL, dB(A)	2019												2020		
						4	5	6	7	8	9	10	11	12	1	2	3			
<b>1) Zone 2</b>																				
Activity 5 - Superstructure	110	157	-52	3	61	61	61	61	61	61	61	61	61	61	61	61	61			
<b>2) Zone 4</b>																				
Activity 5 - Superstructure	117	1284	-70	3	50	50	50	50	50	50	50	50	50	50	50	50	50			
<b>3) Zone 5</b>																				
Activity 3 - Superstructure	118	1021	-68	3	53	53	53	53	53	53	53	53	53	53	53	53	53			
<b>4) Park Construction - Zone C</b>	119	1060	-69	3	54	54	54	54	54	54	54									
<b>5) West Concrete Batching Plant (Operation)</b>	117	1136	-69	3	51	51	51	51	51	51	51	51	51	51	51	51	51			
<b>6) West Pier (Optional)</b>	117	1451	-71	3	49	49	49	49	49	49	49	49	49	49	49	49	49			
<b>7) South Pier (Optional)</b>	117	786	-66	3	54	54	54	54	54	54	54	54	54	54	54	54	54			
<b>8) Viewing Platform (Optional)</b>	115	422	-61	3	58	58	58	58	58	58	58	58	58	58	58	58	58			
<b>Predicted Noise Level of this Project, dB (A)</b>						64	64	64	64	64	64	64	64	64	64	64	64			
															<b>2019</b>		<b>2020</b>			
															Min	Max	Min	Max		
															64	64	64	64		

Note: **Bold** figure in shaded box denotes exceedance of relevant construction noise criteria  
Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

**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	Facade Correction, dB(A)	Calculated SPL, dB(A)	2019												2020		
						4	5	6	7	8	9	10	11	12	1	2	3			
<b>1) Zone 2</b>																				
Activity 5 - Superstructure	110	195	-54	3	59	59	59	59	59	59	59	59	59	59	59	59	59			
<b>2) Zone 4</b>																				
Activity 5 - Superstructure	117	1279	-70	3	50	50	50	50	50	50	50	50	50	50	50	50	50			
<b>3) Zone 5</b>																				
Activity 3 - Superstructure	118	1038	-68	3	53	53	53	53	53	53	53	53	53	53	53	53	53			
<b>4) Park Construction - Zone C</b>	119	1071	-69	3	54	54	54	54	54	54	54									
<b>5) West Concrete Batching Plant (Operation)</b>	117	1151	-69	3	51	51	51	51	51	51	51	51	51	51	51	51	51			
<b>6) West Pier (Optional)</b>	117	1471	-71	3	49	49	49	49	49	49	49	49	49	49	49	49	49			
<b>7) South Pier (Optional)</b>	117	816	-66	3	54	54	54	54	54	54	54	54	54	54	54	54	54			
<b>8) Viewing Platform (Optional)</b>	115	462	-61	3	57	57	57	57	57	57	57	57	57	57	57	57	57			
<b>Predicted Noise Level of this Project, dB (A)</b>						63	63	63	63	63	63	63	63	63	63	63	63			
															<b>2019</b>		<b>2020</b>			
															<b>Min</b>	<b>Max</b>	<b>Min</b>	<b>Max</b>		
															63	63	63	63		

Note: **Bold** figure in shaded box denotes exceedance of relevant construction noise criteria  
Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

**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	Facade Correction, dB(A)	Calculated SPL, dB(A)	2019												2020		
						4	5	6	7	8	9	10	11	12	1	2	3			
<b>1) Zone 2</b>																				
Activity 5 - Superstructure	110	149	-51	3	61	61	61	61	61	61	61	61	61	61	61	61	61			
<b>2) Zone 4</b>																				
Activity 5 - Superstructure	117	1292	-70	3	50	50	50	50	50	50	50	50	50	50	50	50	50			
<b>3) Zone 5</b>																				
Activity 3 - Superstructure	118	1022	-68	3	53	53	53	53	53	53	53	53	53	53	53	53	53			
<b>4) Park Construction - Zone C</b>	119	1079	-69	3	54	54	54	54	54	54	54									
<b>5) West Concrete Batching Plant (Operation)</b>	117	1150	-69	3	51	51	51	51	51	51	51	51	51	51	51	51	51			
<b>6) West Pier (Optional)</b>	117	1455	-71	3	49	49	49	49	49	49	49	49	49	49	49	49	49			
<b>7) South Pier (Optional)</b>	117	780	-66	3	55	55	55	55	55	55	55	55	55	55	55	55	55			
<b>8) Viewing Platform (Optional)</b>	115	398	-60	3	58	58	58	58	58	58	58	58	58	58	58	58	58			
<b>Predicted Noise Level of this Project, dB (A)</b>						65	65	65	65	65	65	64	64	64	64	64	64			
												<b>2019</b>		<b>2020</b>						
												Min	Max	Min	Max					
												64	65	64	64					

Note: **Bold** figure in shaded box denotes exceedance of relevant construction noise criteria  
Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

**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	Facade Correction, dB(A)	Calculated SPL, dB(A)	2019												2020		
						4	5	6	7	8	9	10	11	12	1	2	3			
<b>1) Zone 2</b>																				
Activity 5 - Superstructure	110	152	-52	3	61	61	61	61	61	61	61	61	61	61	61	61	61			
<b>2) Zone 4</b>																				
Activity 5 - Superstructure	117	1298	-70	3	50	50	50	50	50	50	50	50	50	50	50	50	50			
<b>3) Zone 5</b>																				
Activity 3 - Superstructure	118	1026	-68	3	53	53	53	53	53	53	53	53	53	53	53	53	53			
<b>4) Park Construction - Zone C</b>	119	1080	-69	3	54	54	54	54	54	54	54									
<b>5) West Concrete Batching Plant (Operation)</b>	117	1155	-69	3	51	51	51	51	51	51	51	51	51	51	51	51	51			
<b>6) West Pier (Optional)</b>	117	1455	-71	3	49	49	49	49	49	49	49	49	49	49	49	49	49			
<b>7) South Pier (Optional)</b>	117	775	-66	3	55	55	55	55	55	55	55	55	55	55	55	55	55			
<b>8) Viewing Platform (Optional)</b>	115	400	-60	3	58	58	58	58	58	58	58	58	58	58	58	58	58			
<b>Predicted Noise Level of this Project, dB (A)</b>						65	65	65	65	65	65	64	64	64	64	64	64			
															<b>2019</b>		<b>2020</b>			
															Min	Max	Min	Max		
															64	65	64	64		

Note: **Bold** figure in shaded box denotes exceedance of relevant construction noise criteria  
Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

**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	Facade Correction, dB(A)	Calculated SPL, dB(A)	2019												2020		
						4	5	6	7	8	9	10	11	12	1	2	3			
<b>1) Zone 2</b>																				
Activity 5 - Superstructure	110	54	-43	3	70	70	70	70	70	70	70	70	70	70	70	70	70			
<b>2) Zone 4</b>																				
Activity 5 - Superstructure	117	1192	-70	3	50	50	50	50	50	50	50	50	50	50	50	50	50			
<b>3) Zone 5</b>																				
Activity 3 - Superstructure	118	923	-67	3	54	54	54	54	54	54	54	54	54	54	54	54	54			
<b>4) Park Construction - Zone C</b>	119	982	-68	3	55	55	55	55	55	55	55									
<b>5) West Concrete Batching Plant (Operation)</b>	117	1050	-68	3	52	52	52	52	52	52	52	52	52	52	52	52	52			
<b>6) West Pier (Optional)</b>	117	1350	-71	3	50	50	50	50	50	50	50	50	50	50	50	50	50			
<b>7) South Pier (Optional)</b>	117	680	-65	3	56	56	56	56	56	56	56	56	56	56	56	56	56			
<b>8) Viewing Platform (Optional)</b>	115	291	-57	3	61	61	61	61	61	61	61	61	61	61	61	61	61			
<b>Predicted Noise Level of this Project, dB (A)</b>						71	71	71	71	71	71	71	71	71	71	71	71			
															<b>2019</b>		<b>2020</b>			
															Min	Max	Min	Max		
															71	71	71	71		

Note: **Bold** figure in shaded box denotes exceedance of relevant construction noise criteria  
Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

**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	Facade Correction, dB(A)	Calculated SPL, dB(A)	2019												2020		
						4	5	6	7	8	9	10	11	12	1	2	3			
<b>1) Zone 2</b>																				
Activity 5 - Superstructure	110	348	-59	3	54	54	54	54	54	54	54	54	54	54	54	54	54			
<b>2) Zone 4</b>																				
Activity 5 - Superstructure	117	727	-65	3	55	55	55	55	55	55	55	55	55	55	55	55	55			
<b>3) Zone 5</b>																				
Activity 3 - Superstructure	118	470	-61	3	60	60	60	60	60	60	60	60	60	60	60	60	60			
<b>4) Park Construction - Zone C</b>	119	487	-62	3	61	61	61	61	61	61	61									
<b>5) West Concrete Batching Plant (Operation)</b>	117	451	-61	3	59	59	59	59	59	59	59	59	59	59	59	59	59			
<b>6) West Pier (Optional)</b>	117	826	-66	3	54	54	54	54	54	54	54	54	54	54	54	54	54			
<b>7) South Pier (Optional)</b>	117	476	-62	3	59	59	59	59	59	59	59	59	59	59	59	59	59			
<b>8) Viewing Platform (Optional)</b>	115	561	-63	3	55	55	55	55	55	55	55	55	55	55	55	55	55			
<b>Predicted Noise Level of this Project, dB (A)</b>						67	67	67	67	67	67	66	66	66	66	66	66			
												<b>2019</b>		<b>2020</b>						
												<b>Min</b>	<b>Max</b>	<b>Min</b>	<b>Max</b>					
												66	67	66	66					

Note: **Bold** figure in shaded box denotes exceedance of relevant construction noise criteria  
Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.



**Mitigated Construction Noise Impact**

**NSR: P7**

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB	Facade Correction, dB(A)	Calculated SPL, dB(A)	2019												2020		
						4	5	6	7	8	9	10	11	12	1	2	3			
<b>1) Zone 2</b>																				
Activity 5 - Superstructure	110	39	-40	3	73	73	73	73	73	73	73	73	73	73	73	73	73			
<b>2) Zone 4</b>																				
Activity 5 - Superstructure	117	1109	-69	3	51	51	51	51	51	51	51	51	51	51	51	51	51			
<b>3) Zone 5</b>																				
Activity 3 - Superstructure	118	845	-67	3	55	55	55	55	55	55	55	55	55	55	55	55	55			
<b>4) Park Construction - Zone C</b>	119	897	-67	3	55	55	55	55	55	55	55									
<b>5) West Concrete Batching Plant (Operation)</b>	117	958	-68	3	53	53	53	53	53	53	53	53	53	53	53	53	53			
<b>6) West Pier (Optional)</b>	117	1265	-70	3	50	50	50	50	50	50	50	50	50	50	50	50	50			
<b>7) South Pier (Optional)</b>	117	606	-64	3	57	57	57	57	57	57	57	57	57	57	57	57	57			
<b>8) Viewing Platform (Optional)</b>	115	257	-56	3	62	62	62	62	62	62	62	62	62	62	62	62	62			
<b>Predicted Noise Level of this Project, dB (A)</b>						73	73	73	73	73	73	73	73	73	73	73	73			
															<b>2019</b>		<b>2020</b>			
															<b>Min</b>	<b>Max</b>	<b>Min</b>	<b>Max</b>		
															73	73	73	73		

Note: **Bold** figure in shaded box denotes exceedance of relevant construction noise criteria  
Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

**Mitigated Construction Noise Impact**

**NSR: P13**

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB	Facade Correction, dB(A)	Calculated SPL, dB(A)	2019												2020		
						4	5	6	7	8	9	10	11	12	1	2	3			
<b>1) Zone 2</b>																				
Activity 5 - Superstructure	110	103	-48	3	64	64	64	64	64	64	64	64	64	64	64	64	64			
<b>2) Zone 4</b>																				
Activity 5 - Superstructure	117	883	-67	3	53	53	53	53	53	53	53	53	53	53	53	53	53			
<b>3) Zone 5</b>																				
Activity 3 - Superstructure	118	623	-64	3	57	57	57	57	57	57	57	57	57	57	57	57	57			
<b>4) Park Construction - Zone C</b>	119	751	-66	3	57	57	57	57	57	57	57									
<b>5) West Concrete Batching Plant (Operation)</b>	117	741	-65	3	55	55	55	55	55	55	55	55	55	55	55	55	55			
<b>6) West Pier (Optional)</b>	117	1045	-68	3	52	52	52	52	52	52	52	52	52	52	52	52	52			
<b>7) South Pier (Optional)</b>	117	426	-61	3	60	60	60	60	60	60	60	60	60	60	60	60	60			
<b>8) Viewing Platform (Optional)</b>	115	81	-46	3	72	72	72	72	72	72	72	72	72	72	72	72	72			
<b>Predicted Noise Level of this Project, dB (A)</b>						73	73	73	73	73	73	73	73	73	73	73	73			
															<b>2019</b>		<b>2020</b>			
															Min	Max	Min	Max		
															73	73	73	73		

Note: **Bold** figure in shaded box denotes exceedance of relevant construction noise criteria  
Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

**Mitigated Construction Noise Impact**

**NSR: P17**

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB	Facade Correction, dB(A)	Calculated SPL, dB(A)	2019												2020		
						4	5	6	7	8	9	10	11	12	1	2	3			
<b>1) Zone 2</b>																				
Activity 5 - Superstructure	110	33	-38	3	74	74	74	74	74	74	74	74	74	74	74	74	74			
<b>2) Zone 4</b>																				
Activity 5 - Superstructure	117	813	-66	3	54	54	54	54	54	54	54	54	54	54	54	54	54			
<b>3) Zone 5</b>																				
Activity 3 - Superstructure	118	553	-63	3	58	58	58	58	58	58	58	58	58	58	58	58	58			
<b>4) Park Construction - Zone C</b>	119	680	-65	3	58	58	58	58	58	58	58									
<b>5) West Concrete Batching Plant (Operation)</b>	117	670	-65	3	56	56	56	56	56	56	56	56	56	56	56	56	56			
<b>6) West Pier (Optional)</b>	117	975	-68	3	53	53	53	53	53	53	53	53	53	53	53	53	53			
<b>7) South Pier (Optional)</b>	117	355	-59	3	61	61	61	61	61	61	61	61	61	61	61	61	61			
<b>8) Viewing Platform (Optional)</b>	115	161	-52	3	66	66	66	66	66	66	66	66	66	66	66	66	66			
<b>Predicted Noise Level of this Project, dB (A)</b>						75	75	75	75	75	75	75	75	75	75	75	75			
															<b>2019</b>		<b>2020</b>			
															Min	Max	Min	Max		
															75	75	75	75		

Note: **Bold** figure in shaded box denotes exceedance of relevant construction noise criteria  
Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

**Mitigated Construction Noise Impact**

**NSR: P21**

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB	Facade Correction, dB(A)	Calculated SPL, dB(A)	2019												2020		
						4	5	6	7	8	9	10	11	12	1	2	3			
<b>1) Zone 2</b>																				
Activity 5 - Superstructure	110	40	-40	3	73	73	73	73	73	73	73	73	73	73	73	73	73			
<b>2) Zone 4</b>																				
Activity 5 - Superstructure	117	755	-66	3	54	54	54	54	54	54	54	54	54	54	54	54	54			
<b>3) Zone 5</b>																				
Activity 3 - Superstructure	118	490	-62	3	59	59	59	59	59	59	59	59	59	59	59	59	59			
<b>4) Park Construction - Zone C</b>	119	586	-63	3	59	59	59	59	59	59	59									
<b>5) West Concrete Batching Plant (Operation)</b>	117	626	-64	3	56	56	56	56	56	56	56	56	56	56	56	56	56			
<b>6) West Pier (Optional)</b>	117	910	-67	3	53	53	53	53	53	53	53	53	53	53	53	53	53			
<b>7) South Pier (Optional)</b>	117	257	-56	3	64	64	64	64	64	64	64	64	64	64	64	64	64			
<b>8) Viewing Platform (Optional)</b>	115	148	-51	3	67	67	67	67	67	67	67	67	67	67	67	67	67			
<b>Predicted Noise Level of this Project, dB (A)</b>						74	74	74	74	74	74	74	74	74	74	74	74			
												<b>2019</b>		<b>2020</b>						
												<b>Min</b>	<b>Max</b>	<b>Min</b>	<b>Max</b>					
												74	74	74	74					

Note: **Bold** figure in shaded box denotes exceedance of relevant construction noise criteria  
Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

**Mitigated Construction Noise Impact**

**NSR: P26**

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB	Facade Correction, dB(A)	Calculated SPL, dB(A)	2019												2020		
						4	5	6	7	8	9	10	11	12	1	2	3			
<b>1) Zone 2</b>																				
Activity 5 - Superstructure	110	41	-40	3	72	72	72	72	72	72	72	72	72	72	72	72	72			
<b>2) Zone 4</b>																				
Activity 5 - Superstructure	117	664	-64	3	55	55	55	55	55	55	55	55	55	55	55	55	55			
<b>3) Zone 5</b>																				
Activity 3 - Superstructure	118	399	-60	3	61	61	61	61	61	61	61	61	61	61	61	61	61			
<b>4) Park Construction - Zone C</b>	119	541	-63	3	60	60	60	60	60	60	60									
<b>5) West Concrete Batching Plant (Operation)</b>	117	536	-63	3	58	58	58	58	58	58	58	58	58	58	58	58	58			
<b>6) West Pier (Optional)</b>	117	821	-66	3	54	54	54	54	54	54	54	54	54	54	54	54	54			
<b>7) South Pier (Optional)</b>	117	193	-54	3	67	67	67	67	67	67	67	67	67	67	67	67	67			
<b>8) Viewing Platform (Optional)</b>	115	233	-55	3	63	63	63	63	63	63	63	63	63	63	63	63	63			
<b>Predicted Noise Level of this Project, dB (A)</b>						74	74	74	74	74	74	74	74	74	74	74	74			
															<b>2019</b>		<b>2020</b>			
															Min	Max	Min	Max		
															74	74	74	74		

Note: **Bold** figure in shaded box denotes exceedance of relevant construction noise criteria  
Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

**Mitigated Construction Noise Impact**

**NSR: P29**

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB	Facade Correction, dB(A)	Calculated SPL, dB(A)	2019												2020		
						4	5	6	7	8	9	10	11	12	1	2	3			
<b>1) Zone 2</b>																				
Activity 5 - Superstructure	110	162	-52	3	60	60	60	60	60	60	60	60	60	60	60	60	60			
<b>2) Zone 4</b>																				
Activity 5 - Superstructure	117	537	-63	3	57	57	57	57	57	57	57	57	57	57	57	57	57			
<b>3) Zone 5</b>																				
Activity 3 - Superstructure	118	279	-57	3	64	64	64	64	64	64	64	64	64	64	64	64	64			
<b>4) Park Construction - Zone C</b>	119	356	-59	3	63	63	63	63	63	63	63									
<b>5) West Concrete Batching Plant (Operation)</b>	117	396	-60	3	60	60	60	60	60	60	60	60	60	60	60	60	60			
<b>6) West Pier (Optional)</b>	117	706	-65	3	55	55	55	55	55	55	55	55	55	55	55	55	55			
<b>7) South Pier (Optional)</b>	117	217	-55	3	66	66	66	66	66	66	66	66	66	66	66	66	66			
<b>8) Viewing Platform (Optional)</b>	115	376	-60	3	58	58	58	58	58	58	58	58	58	58	58	58	58			
<b>Predicted Noise Level of this Project, dB (A)</b>						71	71	71	71	71	71	71	70	70	70	70	70			
															<b>2019</b>		<b>2020</b>			
															Min	Max	Min	Max		
															70	71	70	70		

Note: **Bold** figure in shaded box denotes exceedance of relevant construction noise criteria  
Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

**Mitigated Construction Noise Impact**

**NSR: P32**

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB	Facade Correction, dB(A)	Calculated SPL, dB(A)	2019												2020		
						4	5	6	7	8	9	10	11	12	1	2	3			
<b>1) Zone 2</b>																				
Activity 5 - Superstructure	110	163	-52	3	60	60	60	60	60	60	60	60	60	60	60	60	60			
<b>2) Zone 4</b>																				
Activity 5 - Superstructure	117	530	-62	3	57	57	57	57	57	57	57	57	57	57	57	57	57			
<b>3) Zone 5</b>																				
Activity 3 - Superstructure	118	266	-56	3	65	65	65	65	65	65	65	65	65	65	65	65	65			
<b>4) Park Construction - Zone C</b>	119	410	-60	3	62	62	62	62	62	62	62									
<b>5) West Concrete Batching Plant (Operation)</b>	117	420	-60	3	60	60	60	60	60	60	60	60	60	60	60	60	60			
<b>6) West Pier (Optional)</b>	117	680	-65	3	56	56	56	56	56	56	56	56	56	56	56	56	56			
<b>7) South Pier (Optional)</b>	117	109	-49	3	72	72	72	72	72	72	72	72	72	72	72	72	72			
<b>8) Viewing Platform (Optional)</b>	115	353	-59	3	59	59	59	59	59	59	59	59	59	59	59	59	59			
<b>Predicted Noise Level of this Project, dB (A)</b>						74	74	74	74	74	74	74	73	73	73	73	73			
															<b>2019</b>		<b>2020</b>			
															Min	Max	Min	Max		
															73	74	73	73		

Note: **Bold** figure in shaded box denotes exceedance of relevant construction noise criteria  
Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

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 2 (for superstructure only)</b>								
	<b>Activity 5 - Superstructure</b>								
	<b>Group 1</b>								
	Crane, tower (electric)	CNP 049	95	2	50%			95	
	Crane, mobile	EPD-01516	101	3	50%	-5	Movable Barrier	98	
	Crane Lorry 5.5 tonne < gross vehicle weight =< 38 tonne	[1]	105	3	50%	-5	Movable Barrier	102	
	Concrete pump, stationary/ lorry mounted	CNP 047	109	3	50%	-10	Movable Barrier	101	
	Poker, vibratory, hand-held (electric)	[1]	102	12	50%	-10	Movable Barrier	100	
	Bar bender and cutter (electric)	CNP 021	90	3	50%	-10	Movable Barrier	82	
	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	3	100%	-15	Enclosure	94	
	Concrete lorry mixer	CNP 044	109	3	50%	-5	Movable Barrier	106	
	Total SWL, dB (A)								<b>109</b>
	<b>Group 2</b>								
	Drill/grinder, hand-held (electric)	CNP 065	98	8	30%	-10	Movable Barrier	92	
	Water pump (electric)	CNP 281	88	6	30%	-15	Enclosure	76	
	Excavator, wheeled/tracked	EPD-01230	99	6	30%	-5	Movable Barrier	97	
	Fork Lift Truck	[2]	104	6	30%	-5	Movable Barrier	102	
	Hoist, passenger/ material (electric)	CNP 122	95	6	30%			98	
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	1	100%			95	
	Total SWL, dB (A)								<b>105</b>
	Maximum SWL, dB (A)								<b>109</b>
	2	<b>Zone 4</b>							
		<b>Activity 5 - Superstructure</b>							
		Crane, tower (electric)	CNP 049	95	4	50%			98
		Crane, mobile/ barge mounted (diesel)	CNP 048	112	8	50%			118
		Crane Lorry 5.5 tonne < gross vehicle weight =< 38 tonne	[1]	105	8	50%			111
		Concrete pump, stationary/ lorry mounted	CNP 047	109	8	50%			115
		Poker, vibratory, hand-held (electric)	[1]	102	40	50%			115
		Bar bender and cutter (electric)	CNP 021	90	8	50%			96
Generator, super silenced, 70 dB(A) at 7 m		CNP 103	95	8	100%			104	
Air compressor, air flow > 30m3/min		CNP 003	104	4	100%			110	
Concrete lorry mixer		CNP 044	109	8	50%			115	
Drill/grinder, hand-held (electric)		CNP 065	98	20	30%			106	
Water pump (electric)		CNP 281	88	14	30%			94	
Excavator/ loader, wheeled/ tracked		CNP 081	112	14	30%			118	
Fork Lift Truck		[2]	104	14	30%			110	
Hoist, passenger/ material (electric)		CNP 122	95	14	30%			101	
Total SWL, dB (A)								<b>124</b>	
3		<b>Zone 5</b>							
		<b>Activity 3 - Superstructure</b>							
		Crane, tower (electric)	CNP 049	95	1	50%			92
		Crane, mobile/ barge mounted (diesel)	CNP 048	112	2	50%			112
		Crane Lorry 5.5 tonne < gross vehicle weight =< 38 tonne	[1]	105	2	50%			105
		Concrete pump, stationary/ lorry mounted	CNP 047	109	2	50%			109
		Poker, vibratory, hand-held (electric)	[1]	102	10	50%			109
	Bar bender and cutter (electric)	CNP 021	90	2	50%			90	
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	2	100%			98	
	Air compressor, air flow > 30m3/min	CNP 003	104	1	100%			104	
	Concrete lorry mixer	CNP 044	109	2	50%			109	
	Drill/grinder, hand-held (electric)	CNP 065	98	5	30%			100	
	Water pump (electric)	CNP 281	88	3	30%			88	
	Excavator/ loader, wheeled/ tracked	CNP 081	112	3	30%			112	
	Fork Lift Truck	[2]	104	3	30%			104	
	Hoist, passenger/ material (electric)	CNP 122	95	3	30%			95	
	Total SWL, dB (A)								<b>118</b>
	4	<b>West Concrete Batching Plant (Operation)</b>							
		Excavator/ loader, wheeled/ tracked	CNP 081	112	2	60%			113
		Concrete mixer (electric)	CNP 045	96	2	60%			97
Generator, super silenced, 70 dB(A) at 7 m		CNP 103	95	4	60%			99	
Concrete mixer (petrol)		CNP 046	96	6	60%			102	
Concrete lorry mixer		CNP 044	109	4	60%			113	
Batching plant		CNP 022	108	2	60%			109	
Air compressor, air flow > 10m3/min and <= 30m3/min		CNP 002	102	4	60%			106	
Dump truck, 5.5 tonne < gross vehicle weight =< 38 tonne		[1]	105	2	30%			103	
Total SWL, dB (A)								<b>117</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	<b>Modification of seawalls and construction of seawater intake / outfall</b>									
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	1	60%			110		
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	2	100%			105		
	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%			112		
	Concrete lorry mixer	CNP 044	109	2	60%			110		
	Poker, vibratory, hand-held (electric)	[1]	102	4	80%			107		
	Tug boat	CNP 221	110	1	60%			108		
			Total SWL, dB (A)					117		
6/7	<b>Pier Construction (Optional)</b>									
	<b>Group 1</b>									
	Piling, large diameter bored, reverse circulation drill	CNP 166	100	1	100%			100		
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	1	60%			110		
	Tug boat	CNP 221	110	1	60%			108		
				Total SWL, dB (A)					112	
	<b>Group 2</b>									
	Concrete pump, stationary/ lorry mounted	CNP 047	109	2	100%			112		
	Concrete lorry mixer	CNP 044	109	4	60%			113		
	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%			105		
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	1	60%			110		
	Tug boat	CNP 221	110	1	60%			108		
				Total SWL, dB (A)					117	
	<b>Group 3</b>									
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	1	60%			110		
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	2	100%			105		
	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%			112		
	Concrete lorry mixer	CNP 044	109	2	60%			110		
	Poker, vibratory, hand-held (electric)	[1]	102	4	80%			107		
	Tug boat	CNP 221	110	1	60%			108		
				Total SWL, dB (A)					117	
				Maximum SWL, dB (A)					117	
	8	<b>Viewing Platform (Optional)</b>								
		<b>Group 1</b>								
		Piling, large diameter bored, reverse circulation drill	CNP 166	100	1	100%			100	
		Crane, mobile/ barge mounted (diesel)	CNP 048	112	1	80%			111	
		Tug boat	CNP 221	110	1	60%			108	
					Total SWL, dB (A)					113
		<b>Group 2</b>								
		Crane, mobile/ barge mounted (diesel)	CNP 048	112	2	100%			115	
					Total SWL, dB (A)					115
					Maximum SWL, dB (A)					115

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)

**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	Facade Correction, dB(A)	Calculated SPL, dB(A)	2020											
						4	5	6	7	8	9	10	11	12			
<b>1) Zone 2</b>																	
Activity 5 - Superstructure	109	155	-52	3	61	61	61	61	61	61	61	61	61	61	61		
<b>2) Zone 4</b>																	
Activity 5 - Superstructure	124	668	-64	3	63	63	63	63	63	63	63						
<b>3) Zone 5</b>																	
Activity 3 - Superstructure	118	407	-60	3	61	61	61	61	61	61	61						
<b>4) West Concrete Batching Plant (Operation)</b>																	
Activity 5 - Superstructure	117	506	-62	3	58	58	58	58	58	58	58	58	58	58	58	58	58
<b>5) Modification of seawalls and construction of seawater intake / outfall</b>																	
Intake of Independent Coolinh System for MPV/EC & Hotel	117	816	-66	3	54					54	54	54	54	54	54	54	54
Outfall of Independent Coolinh System for MPV/EC & Hotel	117	841	-66	3	53					53	53	53	53	53	53	53	53
<b>6) West Pier (Optional)</b>																	
Activity 5 - Superstructure	117	846	-67	3	54	54	54	54	54	54	54	54	54	54	54	54	54
<b>7) South Pier (Optional)</b>																	
Activity 5 - Superstructure	117	347	-59	3	62	62	62	62	62	62	62	62	62	62	62	62	62
<b>8) Viewing Platform (Optional)</b>																	
Activity 5 - Superstructure	115	342	-59	3	59	59	59	59	59	59	59	59	59	59	59	59	59
<b>Predicted Noise Level of this Project, dB (A)</b>						69	69	69	69	69	69	69	67	67	67	67	69
														<b>2020</b>			
														<b>Min</b>	<b>Max</b>		

Note: **Bold** figure in shaded box denotes exceedance of relevant construction noise criteria  
Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

**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	Facade Correction, dB(A)	Calculated SPL, dB(A)	2020											
						4	5	6	7	8	9	10	11	12			
<b>1) Zone 2</b>																	
Activity 5 - Superstructure	109	199	-54	3	58	58	58	58	58	58	58	58	58	58	58		
<b>2) Zone 4</b>																	
Activity 5 - Superstructure	124	577	-63	3	64	64	64	64	64	64	64						
<b>3) Zone 5</b>																	
Activity 3 - Superstructure	118	321	-58	3	63	63	63	63	63	63							
<b>4) West Concrete Batching Plant (Operation)</b>																	
Activity 5 - Superstructure	117	419	-60	3	60	60	60	60	60	60	60	60	60	60	60		
<b>5) Modification of seawalls and construction of seawater intake / outfall</b>																	
Intake of Independent Coolinh System for MPV/EC & Hotel	117	726	-65	3	55				55	55	55	55	55	55	55		
Outfall of Independent Coolinh System for MPV/EC & Hotel	117	766	-66	3	54				54	54	54	54	54	54	54		
<b>6) West Pier (Optional)</b>																	
Activity 5 - Superstructure	117	756	-66	3	55	55	55	55	55	55	55	55	55	55	55		
<b>7) South Pier (Optional)</b>																	
Activity 5 - Superstructure	117	327	-58	3	62	62	62	62	62	62	62	62	62	62	62		
<b>8) Viewing Platform (Optional)</b>																	
Activity 5 - Superstructure	115	412	-60	3	58	58	58	58	58	58	58	58	58	58	58		
<b>Predicted Noise Level of this Project, dB (A)</b>						69	69	69	70	70	70	67	67	67	67	70	
														<b>2020</b>			
														<b>Min</b>	<b>Max</b>		

Note: **Bold** figure in shaded box denotes exceedance of relevant construction noise criteria  
Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

**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	Facade Correction, dB(A)	Calculated SPL, dB(A)	2020											
						4	5	6	7	8	9	10	11	12			
<b>1) Zone 2</b>																	
Activity 5 - Superstructure	109	133	-50	3	62	62	62	62	62	62	62	62	62	62	62		
<b>2) Zone 4</b>																	
Activity 5 - Superstructure	124	610	-64	3	64	64	64	64	64	64	64						
<b>3) Zone 5</b>																	
Activity 3 - Superstructure	118	498	-62	3	59	59	59	59	59	59	59						
<b>4) West Concrete Batching Plant (Operation)</b>																	
Activity 5 - Superstructure	117	598	-64	3	57	57	57	57	57	57	57	57	57	57	57		
<b>5) Modification of seawalls and construction of seawater intake / outfall</b>																	
Intake of Independent Coolinh System for MPV/EC & Hotel	117	901	-67	3	53				53	53	53	53	53	53	53		
Outfall of Independent Coolinh System for MPV/EC & Hotel	117	936	-67	3	53				53	53	53	53	53	53	53		
<b>6) West Pier (Optional)</b>																	
Activity 5 - Superstructure	117	936	-67	3	53	53	53	53	53	53	53	53	53	53	53		
<b>7) South Pier (Optional)</b>																	
Activity 5 - Superstructure	117	396	-60	3	60	60	60	60	60	60	60	60	60	60	60		
<b>8) Viewing Platform (Optional)</b>																	
Activity 5 - Superstructure	115	297	-57	3	61	61	61	61	61	61	61	61	61	61	61		
<b>Predicted Noise Level of this Project, dB (A)</b>						69	69	69	69	69	69	67	67	67	67		
														<b>2020</b>			
														<b>Min</b>	<b>Max</b>		

Note: **Bold** figure in shaded box denotes exceedance of relevant construction noise criteria  
Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

**Mitigated Construction Noise Impact**

**NSR: RD (Residential Development next to Austin Station)**

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB	Facade Correction, dB(A)	Calculated SPL, dB(A)	2020											
						4	5	6	7	8	9	10	11	12			
<b>1) Zone 2</b>																	
Activity 5 - Superstructure	109	432	-61	3	52	52	52	52	52	52	52	52	52	52			
<b>2) Zone 4</b>																	
Activity 5 - Superstructure	124	1217	-70	3	58	58	58	58	58	58	58						
<b>3) Zone 5</b>																	
Activity 3 - Superstructure	118	981	-68	3	53	53	53	53	53	53							
<b>4) West Concrete Batching Plant (Operation)</b>																	
Activity 5 - Superstructure	117	1056	-68	3	52	52	52	52	52	52	52	52	52	52	52	52	
<b>5) Modification of seawalls and construction of seawater intake / outfall</b>																	
Intake of Independent Coolinh System for MPV/EC & Hotel	117	1351	-71	3	49				49	49	49	49	49	49	49	49	
Outfall of Independent Coolinh System for MPV/EC & Hotel	117	1351	-71	3	49				49	49	49	49	49	49	49	49	
<b>6) West Pier (Optional)</b>																	
Activity 5 - Superstructure	117	1391	-71	3	50	50	50	50	50	50	50	50	50	50	50	50	
<b>7) South Pier (Optional)</b>																	
Activity 5 - Superstructure	117	771	-66	3	55	55	55	55	55	55	55	55	55	55	55	55	
<b>8) Viewing Platform (Optional)</b>																	
Activity 5 - Superstructure	115	447	-61	3	57	57	57	57	57	57	57	57	57	57	57	57	
<b>Predicted Noise Level of this Project, dB (A)</b>						63	63	63	63	63	63	63	61	61	61	61	63

Note: **Bold** figure in shaded box denotes exceedance of relevant construction noise criteria  
Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

**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	Facade Correction, dB(A)	Calculated SPL, dB(A)	2020											
						4	5	6	7	8	9	10	11	12			
<b>1) Zone 2</b>																	
Activity 5 - Superstructure	109	506	-62	3	50	50	50	50	50	50	50	50	50	50	50	50	
<b>2) Zone 4</b>																	
Activity 5 - Superstructure	124	1302	-70	3	57	57	57	57	57	57	57						
<b>3) Zone 5</b>																	
Activity 3 - Superstructure	118	1040	-68	3	53	53	53	53	53	53							
<b>4) West Concrete Batching Plant (Operation)</b>																	
Activity 5 - Superstructure	117	1140	-69	3	51	51	51	51	51	51	51	51	51	51	51	51	
<b>5) Modification of seawalls and construction of seawater intake / outfall</b>																	
Intake of Independent Coolinh System for MPV/EC & Hotel	117	1425	-71	3	49				49	49	49	49	49	49	49	49	
Outfall of Independent Coolinh System for MPV/EC & Hotel	117	1425	-71	3	49				49	49	49	49	49	49	49	49	
<b>6) West Pier (Optional)</b>																	
Activity 5 - Superstructure	117	1475	-71	3	49	49	49	49	49	49	49	49	49	49	49	49	
<b>7) South Pier (Optional)</b>																	
Activity 5 - Superstructure	117	845	-67	3	54	54	54	54	54	54	54	54	54	54	54	54	
<b>8) Viewing Platform (Optional)</b>																	
Activity 5 - Superstructure	115	508	-62	3	56	56	56	56	56	56	56	56	56	56	56	56	
<b>Predicted Noise Level of this Project, dB (A)</b>						62	62	62	63	63	63	60	60	60	60	63	
														<b>2020</b>			
														<b>Min</b>	<b>Max</b>		

Note: **Bold** figure in shaded box denotes exceedance of relevant construction noise criteria  
Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

**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	Facade Correction, dB(A)	Calculated SPL, dB(A)	2020											
						4	5	6	7	8	9	10	11	12			
<b>1) Zone 2</b>																	
Activity 5 - Superstructure	109	461	-61	3	51	51	51	51	51	51	51	51	51	51	51		
<b>2) Zone 4</b>																	
Activity 5 - Superstructure	124	1284	-70	3	57	57	57	57	57	57	57						
<b>3) Zone 5</b>																	
Activity 3 - Superstructure	118	1021	-68	3	53	53	53	53	53	53							
<b>4) West Concrete Batching Plant (Operation)</b>																	
Activity 3 - Superstructure	117	1136	-69	3	51	51	51	51	51	51	51	51	51	51	51		
<b>5) Modification of seawalls and construction of seawater intake / outfall</b>																	
Intake of Independent Coolinh System for MPV/EC & Hotel	117	1401	-71	3	49				49	49	49	49	49	49	49		
Outfall of Independent Coolinh System for MPV/EC & Hotel	117	1401	-71	3	49				49	49	49	49	49	49	49		
<b>6) West Pier (Optional)</b>																	
Activity 3 - Superstructure	117	1451	-71	3	49	49	49	49	49	49	49	49	49	49	49		
<b>7) South Pier (Optional)</b>																	
Activity 3 - Superstructure	117	786	-66	3	54	54	54	54	54	54	54	54	54	54	54		
<b>8) Viewing Platform (Optional)</b>																	
Activity 3 - Superstructure	115	422	-61	3	58	58	58	58	58	58	58	58	58	58	58		
<b>Predicted Noise Level of this Project, dB (A)</b>						63	63	63	63	63	63	61	61	61	61	63	

Note: **Bold** figure in shaded box denotes exceedance of relevant construction noise criteria  
Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

**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	Facade Correction, dB(A)	Calculated SPL, dB(A)	2020											
						4	5	6	7	8	9	10	11	12			
<b>1) Zone 2</b>																	
Activity 5 - Superstructure	109	487	-62	3	51	51	51	51	51	51	51	51	51	51	51		
<b>2) Zone 4</b>																	
Activity 5 - Superstructure	124	1279	-70	3	57	57	57	57	57	57	57						
<b>3) Zone 5</b>																	
Activity 3 - Superstructure	118	1038	-68	3	53	53	53	53	53	53							
<b>4) West Concrete Batching Plant (Operation)</b>																	
Activity 5 - Superstructure	117	1151	-69	3	51	51	51	51	51	51	51	51	51	51	51		
<b>5) Modification of seawalls and construction of seawater intake / outfall</b>																	
Intake of Independent Coolinh System for MPV/EC & Hotel	117	1426	-71	3	49				49	49	49	49	49	49	49		
Outfall of Independent Coolinh System for MPV/EC & Hotel	117	1426	-71	3	49				49	49	49	49	49	49	49		
<b>6) West Pier (Optional)</b>																	
Activity 5 - Superstructure	117	1471	-71	3	49	49	49	49	49	49	49	49	49	49	49		
<b>7) South Pier (Optional)</b>																	
Activity 5 - Superstructure	117	816	-66	3	54	54	54	54	54	54	54	54	54	54	54		
<b>8) Viewing Platform (Optional)</b>																	
Activity 5 - Superstructure	115	462	-61	3	57	57	57	57	57	57	57	57	57	57	57		
<b>Predicted Noise Level of this Project, dB (A)</b>						62	62	62	63	63	63	61	61	61	61		
														<b>2020</b>			
														<b>Min</b>	<b>Max</b>		

Note: **Bold** figure in shaded box denotes exceedance of relevant construction noise criteria  
Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.



**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	Facade Correction, dB(A)	Calculated SPL, dB(A)	2020											
						4	5	6	7	8	9	10	11	12			
<b>1) Zone 2</b>																	
Activity 5 - Superstructure	109	464	-61	3	51	51	51	51	51	51	51	51	51	51	51		
<b>2) Zone 4</b>																	
Activity 5 - Superstructure	124	1292	-70	3	57	57	57	57	57	57	57						
<b>3) Zone 5</b>																	
Activity 3 - Superstructure	118	1022	-68	3	53	53	53	53	53	53							
<b>4) West Concrete Batching Plant (Operation)</b>																	
Activity 5 - Superstructure	117	1150	-69	3	51	51	51	51	51	51	51	51	51	51	51		
<b>5) Modification of seawalls and construction of seawater intake / outfall</b>																	
Intake of Independent Coolinh System for MPV/EC & Hotel	117	1400	-71	3	49				49	49	49	49	49	49	49		
Outfall of Independent Coolinh System for MPV/EC & Hotel	117	1400	-71	3	49				49	49	49	49	49	49	49		
<b>6) West Pier (Optional)</b>																	
Activity 5 - Superstructure	117	1455	-71	3	49	49	49	49	49	49	49	49	49	49	49		
<b>7) South Pier (Optional)</b>																	
Activity 5 - Superstructure	117	780	-66	3	55	55	55	55	55	55	55	55	55	55	55		
<b>8) Viewing Platform (Optional)</b>																	
Activity 5 - Superstructure	115	398	-60	3	58	58	58	58	58	58	58	58	58	58	58		
<b>Predicted Noise Level of this Project, dB (A)</b>						63	63	63	63	63	63	62	62	62	62	63	
														<b>2020</b>			
														<b>Min</b>	<b>Max</b>		

Note: **Bold** figure in shaded box denotes exceedance of relevant construction noise criteria  
Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

**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	Facade Correction, dB(A)	Calculated SPL, dB(A)	2020											
						4	5	6	7	8	9	10	11	12			
<b>1) Zone 2</b>																	
Activity 5 - Superstructure	109	465	-61	3	51	51	51	51	51	51	51	51	51	51	51		
<b>2) Zone 4</b>																	
Activity 5 - Superstructure	124	1298	-70	3	57	57	57	57	57	57	57						
<b>3) Zone 5</b>																	
Activity 3 - Superstructure	118	1026	-68	3	53	53	53	53	53	53							
<b>4) West Concrete Batching Plant (Operation)</b>																	
Activity 5 - Superstructure	117	1155	-69	3	51	51	51	51	51	51	51	51	51	51	51	51	51
<b>5) Modification of seawalls and construction of seawater intake / outfall</b>																	
Intake of Independent Coolinh System for MPV/EC & Hotel	117	1410	-71	3	49					49	49	49	49	49	49	49	49
Outfall of Independent Coolinh System for MPV/EC & Hotel	117	1410	-71	3	49					49	49	49	49	49	49	49	49
<b>6) West Pier (Optional)</b>																	
Activity 5 - Superstructure	117	1455	-71	3	49	49	49	49	49	49	49	49	49	49	49	49	49
<b>7) South Pier (Optional)</b>																	
Activity 5 - Superstructure	117	775	-66	3	55	55	55	55	55	55	55	55	55	55	55	55	55
<b>8) Viewing Platform (Optional)</b>																	
Activity 5 - Superstructure	115	400	-60	3	58	58	58	58	58	58	58	58	58	58	58	58	58
<b>Predicted Noise Level of this Project, dB (A)</b>						63	63	63	63	63	63	63	61	61	61	61	63
														<b>2020</b>			
														<b>Min</b>	<b>Max</b>		

Note: **Bold** figure in shaded box denotes exceedance of relevant construction noise criteria  
Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

**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	Facade Correction, dB(A)	Calculated SPL, dB(A)	2020											
						4	5	6	7	8	9	10	11	12			
<b>1) Zone 2</b>																	
Activity 5 - Superstructure	109	362	-59	3	53	53	53	53	53	53	53	53	53	53			
<b>2) Zone 4</b>																	
Activity 5 - Superstructure	124	1192	-70	3	58	58	58	58	58	58	58						
<b>3) Zone 5</b>																	
Activity 3 - Superstructure	118	923	-67	3	54	54	54	54	54	54	54						
<b>4) West Concrete Batching Plant (Operation)</b>																	
Activity 5 - Superstructure	117	1050	-68	3	52	52	52	52	52	52	52	52	52	52	52	52	
<b>5) Modification of seawalls and construction of seawater intake / outfall</b>																	
Intake of Independent Coolinh System for MPV/EC & Hotel	117	1315	-70	3	50				50	50	50	50	50	50	50	50	
Outfall of Independent Coolinh System for MPV/EC & Hotel	117	1315	-70	3	50				50	50	50	50	50	50	50	50	
<b>6) West Pier (Optional)</b>																	
Activity 5 - Superstructure	117	1350	-71	3	50	50	50	50	50	50	50	50	50	50	50	50	
<b>7) South Pier (Optional)</b>																	
Activity 5 - Superstructure	117	680	-65	3	56	56	56	56	56	56	56	56	56	56	56	56	
<b>8) Viewing Platform (Optional)</b>																	
Activity 5 - Superstructure	115	291	-57	3	61	61	61	61	61	61	61	61	61	61	61	61	
<b>Predicted Noise Level of this Project, dB (A)</b>						65	65	65	65	65	65	63	63	63	63	65	
														<b>2020</b>			
														<b>Min</b>	<b>Max</b>		

Note: **Bold** figure in shaded box denotes exceedance of relevant construction noise criteria  
Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

**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	Facade Correction, dB(A)	Calculated SPL, dB(A)	2020											
						4	5	6	7	8	9	10	11	12			
<b>1) Zone 2</b>																	
Activity 5 - Superstructure	109	348	-59	3	54	54	54	54	54	54	54	54	54	54	54		
<b>2) Zone 4</b>																	
Activity 5 - Superstructure	124	727	-65	3	62	62	62	62	62	62	62						
<b>3) Zone 5</b>																	
Activity 3 - Superstructure	118	470	-61	3	60	60	60	60	60	60							
<b>4) West Concrete Batching Plant (Operation)</b>																	
Activity 5 - Superstructure	117	451	-61	3	59	59	59	59	59	59	59	59	59	59	59	59	59
<b>5) Modification of seawalls and construction of seawater intake / outfall</b>																	
Intake of Independent Coolinh System for MPV/EC & Hotel	117	801	-66	3	54				54	54	54	54	54	54	54	54	54
Outfall of Independent Coolinh System for MPV/EC & Hotel	117	876	-67	3	53				53	53	53	53	53	53	53	53	53
<b>6) West Pier (Optional)</b>																	
Activity 5 - Superstructure	117	826	-66	3	54	54	54	54	54	54	54	54	54	54	54	54	54
<b>7) South Pier (Optional)</b>																	
Activity 5 - Superstructure	117	476	-62	3	59	59	59	59	59	59	59	59	59	59	59	59	59
<b>8) Viewing Platform (Optional)</b>																	
Activity 5 - Superstructure	115	561	-63	3	55	55	55	55	55	55	55	55	55	55	55	55	55
<b>Predicted Noise Level of this Project, dB (A)</b>						67	67	67	67	67	67	67	65	65	65	65	67
														<b>2020</b>			
														<b>Min</b>	<b>Max</b>		

Note: **Bold** figure in shaded box denotes exceedance of relevant construction noise criteria  
Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

**Mitigated Construction Noise Impact**

**NSR: P7**

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB	Facade Correction, dB(A)	Calculated SPL, dB(A)	2020											
						4	5	6	7	8	9	10	11	12			
<b>1) Zone 2</b>																	
Activity 5 - Superstructure	109	252	-56	3	56	56	56	56	56	56	56	56	56	56			
<b>2) Zone 4</b>																	
Activity 5 - Superstructure	124	1109	-69	3	58	58	58	58	58	58	58						
<b>3) Zone 5</b>																	
Activity 3 - Superstructure	118	845	-67	3	55	55	55	55	55	55							
<b>4) West Concrete Batching Plant (Operation)</b>																	
Activity 5 - Superstructure	117	958	-68	3	53	53	53	53	53	53	53	53	53	53	53	53	
<b>5) Modification of seawalls and construction of seawater intake / outfall</b>																	
Intake of Independent Coolinh System for MPV/EC & Hotel	117	1225	-70	3	50				50	50	50	50	50	50	50	50	
Outfall of Independent Coolinh System for MPV/EC & Hotel	117	1225	-70	3	50				50	50	50	50	50	50	50	50	
<b>6) West Pier (Optional)</b>																	
Activity 5 - Superstructure	117	1265	-70	3	50	50	50	50	50	50	50	50	50	50	50	50	
<b>7) South Pier (Optional)</b>																	
Activity 5 - Superstructure	117	606	-64	3	57	57	57	57	57	57	57	57	57	57	57	57	
<b>8) Viewing Platform (Optional)</b>																	
Activity 5 - Superstructure	115	257	-56	3	62	62	62	62	62	62	62	62	62	62	62	62	
<b>Predicted Noise Level of this Project, dB (A)</b>						66	66	66	66	66	66	65	65	65	65	66	
														<b>2020</b>			
														<b>Min</b>	<b>Max</b>		

Note: **Bold** figure in shaded box denotes exceedance of relevant construction noise criteria  
Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

**Mitigated Construction Noise Impact**

**NSR: P13**

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB	Facade Correction, dB(A)	Calculated SPL, dB(A)	2020											
						4	5	6	7	8	9	10	11	12			
<b>1) Zone 2</b>																	
Activity 5 - Superstructure	109	102	-48	3	64	64	64	64	64	64	64	64	64	64	64		
<b>2) Zone 4</b>																	
Activity 5 - Superstructure	124	883	-67	3	60	60	60	60	60	60	60						
<b>3) Zone 5</b>																	
Activity 3 - Superstructure	118	623	-64	3	57	57	57	57	57	57							
<b>4) West Concrete Batching Plant (Operation)</b>																	
Activity 5 - Superstructure	117	741	-65	3	55	55	55	55	55	55	55	55	55	55	55		
<b>5) Modification of seawalls and construction of seawater intake / outfall</b>																	
Intake of Independent Coolinh System for MPV/EC & Hotel	117	1075	-69	3	51					51	51	51	51	51	51		
Outfall of Independent Coolinh System for MPV/EC & Hotel	117	1075	-69	3	51					51	51	51	51	51	51		
<b>6) West Pier (Optional)</b>																	
Activity 5 - Superstructure	117	1045	-68	3	52	52	52	52	52	52	52	52	52	52	52		
<b>7) South Pier (Optional)</b>																	
Activity 5 - Superstructure	117	426	-61	3	60	60	60	60	60	60	60	60	60	60	60		
<b>8) Viewing Platform (Optional)</b>																	
Activity 5 - Superstructure	115	81	-46	3	72	72	72	72	72	72	72	72	72	72	72		
<b>Predicted Noise Level of this Project, dB (A)</b>						73	73	73	73	73	73	73	73	73	73	2020	
																Min	
																Max	

Note: **Bold** figure in shaded box denotes exceedance of relevant construction noise criteria  
Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

**Mitigated Construction Noise Impact**

**NSR: P17**

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB	Facade Correction, dB(A)	Calculated SPL, dB(A)	2020																				
						4	5	6	7	8	9	10	11	12												
<b>1) Zone 2</b>																										
Activity 5 - Superstructure	109	32	-38	3	74	74	74	74	74	74	74	74	74	74	74	74	74									
<b>2) Zone 4</b>																										
Activity 5 - Superstructure	124	813	-66	3	61	61	61	61	61	61	61	61	61	61	61	61	61									
<b>3) Zone 5</b>																										
Activity 3 - Superstructure	118	553	-63	3	58	58	58	58	58	58	58	58	58	58	58	58	58									
<b>4) West Concrete Batching Plant (Operation)</b>																										
Activity 5 - Superstructure	117	670	-65	3	56	56	56	56	56	56	56	56	56	56	56	56	56									
<b>5) Modification of seawalls and construction of seawater intake / outfall</b>																										
Intake of Independent Coolinh System for MPV/EC & Hotel	117	940	-67	3	53					53	53	53	53	53	53	53	53									
Outfall of Independent Coolinh System for MPV/EC & Hotel	117	940	-67	3	53					53	53	53	53	53	53	53	53									
<b>6) West Pier (Optional)</b>																										
Activity 5 - Superstructure	117	975	-68	3	53	53	53	53	53	53	53	53	53	53	53	53	53									
<b>7) South Pier (Optional)</b>																										
Activity 5 - Superstructure	117	355	-59	3	61	61	61	61	61	61	61	61	61	61	61	61	61									
<b>8) Viewing Platform (Optional)</b>																										
Activity 5 - Superstructure	115	161	-52	3	66	66	66	66	66	66	66	66	66	66	66	66	66									
<b>Predicted Noise Level of this Project, dB (A)</b>						75	75	75	75	75	75	75	75	75	75	75	75	75								
														<b>2020</b>												
														<b>Min</b>	<b>Max</b>											

Note: **Bold** figure in shaded box denotes exceedance of relevant construction noise criteria  
Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

**Mitigated Construction Noise Impact**

**NSR: P21**

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB	Facade Correction, dB(A)	Calculated SPL, dB(A)	2020																				
						4	5	6	7	8	9	10	11	12												
<b>1) Zone 2</b>																										
Activity 5 - Superstructure	109	40	-40	3	72	72	72	72	72	72	72	72	72	72	72	72	72	72								
<b>2) Zone 4</b>																										
Activity 5 - Superstructure	124	755	-66	3	62	62	62	62	62	62	62	62	62	62	62	62	62	62								
<b>3) Zone 5</b>																										
Activity 3 - Superstructure	118	490	-62	3	59	59	59	59	59	59	59	59	59	59	59	59	59	59								
<b>4) West Concrete Batching Plant (Operation)</b>																										
Activity 5 - Superstructure	117	626	-64	3	56	56	56	56	56	56	56	56	56	56	56	56	56	56								
<b>5) Modification of seawalls and construction of seawater intake / outfall</b>																										
Intake of Independent Coolinh System for MPV/EC & Hotel	117	890	-67	3	53					53	53	53	53	53	53	53	53	53								
Outfall of Independent Coolinh System for MPV/EC & Hotel	117	890	-67	3	53					53	53	53	53	53	53	53	53	53								
<b>6) West Pier (Optional)</b>																										
Activity 5 - Superstructure	117	910	-67	3	53	53	53	53	53	53	53	53	53	53	53	53	53	53								
<b>7) South Pier (Optional)</b>																										
Activity 5 - Superstructure	117	257	-56	3	64	64	64	64	64	64	64	64	64	64	64	64	64	64								
<b>8) Viewing Platform (Optional)</b>																										
Activity 5 - Superstructure	115	148	-51	3	67	67	67	67	67	67	67	67	67	67	67	67	67	67								
<b>Predicted Noise Level of this Project, dB (A)</b>						74	74	74	74	74	74	74	74	74	74	74	74	74	74							
														<b>2020</b>												
														<b>Min</b>	<b>Max</b>											

Note: **Bold** figure in shaded box denotes exceedance of relevant construction noise criteria  
Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.



**Mitigated Construction Noise Impact**

**NSR: P26**

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB	Facade Correction, dB(A)	Calculated SPL, dB(A)	2020												
						4	5	6	7	8	9	10	11	12				
<b>1) Zone 2</b>																		
Activity 5 - Superstructure	109	41	-40	3	72	72	72	72	72	72	72	72	72	72				
<b>2) Zone 4</b>																		
Activity 5 - Superstructure	124	664	-64	3	63	63	63	63	63	63	63							
<b>3) Zone 5</b>																		
Activity 3 - Superstructure	118	399	-60	3	61	61	61	61	61	61	61							
<b>4) West Concrete Batching Plant (Operation)</b>																		
Activity 5 - Superstructure	117	536	-63	3	58	58	58	58	58	58	58	58	58	58	58	58		
<b>5) Modification of seawalls and construction of seawater intake / outfall</b>																		
Intake of Independent Coolinh System for MPV/EC & Hotel	117	791	-66	3	54					54	54	54	54	54	54	54		
Outfall of Independent Coolinh System for MPV/EC & Hotel	117	791	-66	3	54					54	54	54	54	54	54	54		
<b>6) West Pier (Optional)</b>																		
Activity 5 - Superstructure	117	821	-66	3	54	54	54	54	54	54	54	54	54	54	54	54		
<b>7) South Pier (Optional)</b>																		
Activity 5 - Superstructure	117	193	-54	3	67	67	67	67	67	67	67	67	67	67	67	67		
<b>8) Viewing Platform (Optional)</b>																		
Activity 5 - Superstructure	115	233	-55	3	63	63	63	63	63	63	63	63	63	63	63	63		
<b>Predicted Noise Level of this Project, dB (A)</b>						74	74	74	74	74	74	74	74	74	74	74	2020	
																	Min	
																		Max

Note: **Bold** figure in shaded box denotes exceedance of relevant construction noise criteria  
Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

**Mitigated Construction Noise Impact**

**NSR: P29**

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB	Facade Correction, dB(A)	Calculated SPL, dB(A)	2020																				
						4	5	6	7	8	9	10	11	12												
<b>1) Zone 2</b>																										
Activity 5 - Superstructure	109	162	-52	3	60	60	60	60	60	60	60	60	60	60	60	60	60	60								
<b>2) Zone 4</b>																										
Activity 5 - Superstructure	124	537	-63	3	65	65	65	65	65	65	65	65	65	65	65	65	65	65								
<b>3) Zone 5</b>																										
Activity 3 - Superstructure	118	279	-57	3	64	64	64	64	64	64	64	64	64	64	64	64	64	64								
<b>4) West Concrete Batching Plant (Operation)</b>																										
Activity 5 - Superstructure	117	396	-60	3	60	60	60	60	60	60	60	60	60	60	60	60	60	60								
<b>5) Modification of seawalls and construction of seawater intake / outfall</b>																										
Intake of Independent Coolinh System for MPV/EC & Hotel	117	681	-65	3	55					55	55	55	55	55	55	55	55	55								
Outfall of Independent Coolinh System for MPV/EC & Hotel	117	701	-65	3	55					55	55	55	55	55	55	55	55	55								
<b>6) West Pier (Optional)</b>																										
Activity 5 - Superstructure	117	706	-65	3	55	55	55	55	55	55	55	55	55	55	55	55	55	55								
<b>7) South Pier (Optional)</b>																										
Activity 5 - Superstructure	117	217	-55	3	66	66	66	66	66	66	66	66	66	66	66	66	66	66								
<b>8) Viewing Platform (Optional)</b>																										
Activity 5 - Superstructure	115	376	-60	3	58	58	58	58	58	58	58	58	58	58	58	58	58	58								
<b>Predicted Noise Level of this Project, dB (A)</b>						71	71	71	71	71	71	71	71	71	69	69	69	69	71							

Note: **Bold** figure in shaded box denotes exceedance of relevant construction noise criteria  
Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

**Mitigated Construction Noise Impact**

**NSR: P32**

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB	Facade Correction, dB(A)	Calculated SPL, dB(A)	2020											
						4	5	6	7	8	9	10	11	12			
<b>1) Zone 2</b>																	
Activity 5 - Superstructure	109	163	-52	3	60	60	60	60	60	60	60	60	60	60	60		
<b>2) Zone 4</b>																	
Activity 5 - Superstructure	124	530	-62	3	65	65	65	65	65	65	65						
<b>3) Zone 5</b>																	
Activity 3 - Superstructure	118	266	-56	3	65	65	65	65	65	65	65						
<b>4) West Concrete Batching Plant (Operation)</b>																	
Activity 5 - Superstructure	117	420	-60	3	60	60	60	60	60	60	60	60	60	60	60		
<b>5) Modification of seawalls and construction of seawater intake / outfall</b>																	
Intake of Independent Coolinh System for MPV/EC & Hotel	117	660	-64	3	56				56	56	56	56	56	56	56		
Outfall of Independent Coolinh System for MPV/EC & Hotel	117	655	-64	3	56				56	56	56	56	56	56	56		
<b>6) West Pier (Optional)</b>																	
Activity 5 - Superstructure	117	680	-65	3	56	56	56	56	56	56	56	56	56	56	56		
<b>7) South Pier (Optional)</b>																	
Activity 5 - Superstructure	117	109	-49	3	72	72	72	72	72	72	72	72	72	72	72		
<b>8) Viewing Platform (Optional)</b>																	
Activity 5 - Superstructure	115	353	-59	3	59	59	59	59	59	59	59	59	59	59	59		
<b>Predicted Noise Level of this Project, dB (A)</b>						74	74	74	74	74	74	73	73	73	73		
														<b>2020</b>			
														<b>Min</b>	<b>Max</b>		

Note: **Bold** figure in shaded box denotes exceedance of relevant construction noise criteria  
Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

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 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
2	<b>Zone 2</b>								
	<b>Activity 5 - Superstructure</b>								
	<b>Group 1</b>								
	Crane, tower (electric)	CNP 049	95	4	50%			98	
	Crane, mobile	EPD-01516	101	4	50%	-5	Movable Barrier	99	
	Crane Lorry 5.5 tonne < gross vehicle weight =< 38 tonne	[1]	105	4	50%	-5	Movable Barrier	103	
	Concrete pump, stationary/ lorry mounted	CNP 047	109	4	50%	-10	Movable Barrier	102	
	Poker, vibratory, hand-held (electric)	[1]	102	12	50%	-10	Movable Barrier	100	
	Bar bender and cutter (electric)	CNP 021	90	6	50%	-10	Movable Barrier	85	
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	4	100%	-15	Enclosure	86	
	Air compressor, air flow > 30m3/min	CNP 003	104	4	100%	-15	Enclosure	95	
	Concrete lorry mixer	CNP 044	109	4	50%	-5	Movable Barrier	107	
								Total SWL, dB (A)	111
	<b>Group 2</b>								
	Drill/grinder, hand-held (electric)	CNP 065	98	12	30%	-10	Movable Barrier	94	
	Water pump (electric)	CNP 281	88	8	30%	-15	Enclosure	77	
	Excavator, wheeled/tracked	EPD-01230	99	8	30%	-5	Movable Barrier	98	
	Fork Lift Truck	[2]	104	8	30%	-5	Movable Barrier	103	
	Hoist, passenger/ material (electric)	CNP 122	95	8	30%			99	
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	1	100%	-15	Enclosure	80	
								Total SWL, dB (A)	105
								Maximum SWL, dB (A)	111
	3	<b>Zone 3</b>							
		<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	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	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	6	30%	-10	Movable Barrier	91	
Water pump (electric)		CNP 281	88	4	30%	-15	Enclosure	74	
Excavator, wheeled/tracked		EPD-01230	99	4	30%	-5	Movable Barrier	95	
Fork Lift Truck		[2]	104	4	30%	-5	Movable Barrier	100	
Hoist, passenger/ material (electric)		CNP 122	95	4	30%			96	
							Total SWL, dB (A)	109	
4/5/6	<b>Anchorage Footbridge / Kowloon Park Footbridge</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	1	30%	-10	Movable Barrier	99	
	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)	103
	<b>Group 2</b>								
	Excavator, wheeled/tracked	EPD-01230	99	1	30%	-5	Movable Barrier	89	
	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)	104	
							Maximum SWL, dB (A)	104	
7	<b>West Concrete Batching Plant (Demolition)</b>								
	Crane, mobile	EPD-01516	101	2	60%	-5	Movable Barrier	97	
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	2	60%	-15	Enclosure	81	
	Welding set	[2]	78	2	60%	-10	Movable Barrier	69	
							Total SWL, dB (A)	97	
8/9	<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)	110
	<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%	-15	Enclosure	79	
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	2	100%	-15	Enclosure	83	
	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)	112

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>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%	-15	Enclosure	83
	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)	112
							Maximum SWL, dB (A)	112
10	<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	2	80%	-5	Movable Barrier	98
	Tug boat	CNP 221	110	1	60%			108
							Total SWL, dB (A)	108
	<b>Group 2</b>							
	Crane, mobile	EPD-01516	101	2	100%			104
							Total SWL, dB (A)	104
							Maximum SWL, dB (A)	108
11	<b>Fire Services Department Staff Quarter Demolition</b>							
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	2	100%	-15	Enclosure	90
	Breaker, hand-held, mass > 35kg	CNP 026	114	2	30%	-10	Movable Barrier	102
	Crane, mobile	EPD-01516	101	2	80%	-5	Movable Barrier	98
	Crane Lorry 5.5 tonne < gross vehicle weight =< 38 tonne	[1]	105	2	70%	-5	Movable Barrier	101
	Generator, silenced, 75 dB(A) at 7 m	CNP 102	100	2	60%	-15	Enclosure	86
	Welding set	[2]	78	2	60%	-10	Movable Barrier	69
							Total SWL, dB (A)	106
	<b>Excluded Area (Fire Service Department Staff Quarter)</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	
<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	
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)	104	
						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	2	30%	-5	Movable Barrier	98	
						Total SWL, dB (A)	100	
<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)	106	
<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	

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)

**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, dB(A)	Calculated SPL, dB(A)	2021		2022-2030			After 2030	
						Jan-Dec	Before FQ Relocation (Before 2025)	FQ Demolition (Half year)	Excluded Area Construction (3 years)*	Footbridge Construction (2 years)	Min	Max
<b>1) Zone 1</b>												
Activity 5 - Superstructure	108	515	-62	3	49	49	49	49	49			
<b>2) Zone 2</b>												
Activity 5 - Superstructure	111	184	-53	3	60	60	60	60	60			
<b>3) Zone 3</b>												
Activity 5 - Superstructure	109	303	-58	3	54	54	54	54	54			
4) Anchorage Footbridge	104	325	-58	3	48	48	48	48	48			
5) Kowloon Park Footbridge (West)	104	643	-64	3	42							42
6) Kowloon Park Footbridge (South)	104	574	-63	3	43							43
7) West Concrete Batching Plant (Demolition)	97	506	-62	3	38	38						
8) West Pier (Optional)	112	846	-67	3	49	49						
9) South Pier (Optional)	112	347	-59	3	56	56						
10) Viewing Platform (Optional)	108	342	-59	3	53	53						
11) Fire Services Department Staff Quarter Demolition	106	551	-63	3	46			46				
<b>12) Excluded Area (Fire Service Department Staff Quarter)</b>												
Activity 1 - D Walling	104	551	-63	3	44						44	
Activity 2 - Bored Piling	108	551	-63	3	48						48	
Activity 3 - Excavation	100	551	-63	3	41						41	
Activity 4 - Basement and Underpass	106	551	-63	3	46						46	
Activity 5 - Superstructure	108	551	-63	3	48						48	
<b>Predicted Noise Level of this Project, dB (A)</b>						63	62	62	62	46	46	63

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

Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

\* Activities in excluded area including permanent underpass and superstructure construction will not be carried out simultaneously. Therefore, maximum predicted noise level of those activities has been adopted as conservative approach.

**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, dB(A)	Calculated SPL, dB(A)	2021		2022-2030			After 2030 Footbridge Construction (2 years)
						Jan-Dec	Before FQ Relocation (Before 2025)	FQ Demolition (Half year)	Excluded Area Construction (3 years)*		
<b>1) Zone 1</b>											
Activity 5 - Superstructure	108	609	-64	3	48	48	48	48	48		
<b>2) Zone 2</b>											
Activity 5 - Superstructure	111	185	-53	3	60	60	60	60	60		
<b>3) Zone 3</b>											
Activity 5 - Superstructure	109	228	-55	3	57	57	57	57	57		
4) Anchorage Footbridge	104	272	-57	3	50	50	50	50	50		
5) Kowloon Park Footbridge (West)	104	732	-65	3	41						41
6) Kowloon Park Footbridge (South)	104	663	-64	3	42						42
7) West Concrete Batching Plant (Demolition)	97	419	-60	3	39	39					
8) West Pier (Optional)	112	756	-66	3	50	50					
9) South Pier (Optional)	112	327	-58	3	57	57					
10) Viewing Platform (Optional)	108	412	-60	3	51	51					
11) Fire Services Department Staff Quarter Demolition	106	626	-64	3	45			45			
<b>12) Excluded Area (Fire Service Department Staff Quarter)</b>											
Activity 1 - D Walling	104	626	-64	3	43					43	
Activity 2 - Bored Piling	108	626	-64	3	47					47	
Activity 3 - Excavation	100	626	-64	3	39					39	
Activity 4 - Basement and Underpass	106	626	-64	3	45					45	
Activity 5 - Superstructure	108	626	-64	3	47					47	
<b>Predicted Noise Level of this Project, dB (A)</b>						64	62	62	62	45	64

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

Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

\* Activities in excluded area including permanent underpass and superstructure construction will not be carried out simultaneously. Therefore, maximum predicted noise level of those activities has been adopted as conservative approach.

**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, dB(A)	Calculated SPL, dB(A)	2021		2022-2030			After 2030 Footbridge Construction (2 years)		
						Jan-Dec	Before FQ Relocation (Before 2025)	FQ Demolition (Half year)	Excluded Area Construction (3 years)*				
<b>1) Zone 1</b>													
Activity 5 - Superstructure	108	425	-61	3	51	51	51	51	51				
<b>2) Zone 2</b>													
Activity 5 - Superstructure	111	238	-56	3	58	58	58	58	58				
<b>3) Zone 3</b>													
Activity 5 - Superstructure	109	392	-60	3	52	52	52	52	52				
4) Anchorage Footbridge	104	372	-59	3	47	47	47	47	47				
5) Kowloon Park Footbridge (West)	104	555	-63	3	44						44		
6) Kowloon Park Footbridge (South)	104	496	-62	3	45						45		
7) West Concrete Batching Plant (Demolition)	97	598	-64	3	36	36							
8) West Pier (Optional)	112	936	-67	3	48	48							
9) South Pier (Optional)	112	396	-60	3	55	55							
10) Viewing Platform (Optional)	108	297	-57	3	54	54							
11) Fire Services Department Staff Quarter Demolition	106	451	-61	3	48			48					
<b>12) Excluded Area (Fire Service Department Staff Quarter)</b>													
Activity 1 - D Walling	104	451	-61	3	46					46			
Activity 2 - Bored Piling	108	451	-61	3	50					50			
Activity 3 - Excavation	100	451	-61	3	42					42			
Activity 4 - Basement and Underpass	106	451	-61	3	47					47			
Activity 5 - Superstructure	108	451	-61	3	50					50			
<b>Predicted Noise Level of this Project, dB (A)</b>						62	60	60	60	60	47	<b>Min</b>	<b>Max</b>
											47	62	

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

Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

\* Activities in excluded area including permanent underpass and superstructure construction will not be carried out simultaneously. Therefore, maximum predicted noise level of those activities has been adopted as conservative approach.



**Mitigated Construction Noise Impact**

**NSR: RD (Residential Development next to Austin Station)**

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)	2021		2022-2030			After 2030	
						Jan-Dec	Before FQ Relocation (Before 2025)	FQ Demolition (Half year)	Excluded Area Construction (3 years)*	Footbridge Construction (2 years)	Min	Max
<b>1) Zone 1</b>												
Activity 5 - Superstructure	108	137	-51	3	61	61	61	61	61			
<b>2) Zone 2</b>												
Activity 5 - Superstructure	111	228	-55	3	58	58	58	58	58			
<b>3) Zone 3</b>												
Activity 5 - Superstructure	109	845	-67	3	45	45	45	45	45			
4) Anchorage Footbridge	104	754	-66	3	41	41	41	41	41			
5) Kowloon Park Footbridge (West)	104	240	-56	3	51							51
6) Kowloon Park Footbridge (South)	104	246	-56	3	51							51
7) West Concrete Batching Plant (Demolition)	97	1056	-68	3	31	31						
8) West Pier (Optional)	112	1391	-71	3	44	44						
9) South Pier (Optional)	112	771	-66	3	49	49						
10) Viewing Platform (Optional)	108	447	-61	3	50	50						
11) Fire Services Department Staff Quarter Demolition	106	190	-54	3	55			55				
<b>12) Excluded Area (Fire Service Department Staff Quarter)</b>												
Activity 1 - D Walling	104	190	-54	3	53						53	
Activity 2 - Bored Piling	108	190	-54	3	57						57	
Activity 3 - Excavation	100	190	-54	3	50						50	
Activity 4 - Basement and Underpass	106	190	-54	3	55						55	
Activity 5 - Superstructure	108	190	-54	3	58						58	
<b>Predicted Noise Level of this Project, dB (A)</b>						63	63	63	64	64	54	64

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

Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

\* Activities in excluded area including permanent underpass and superstructure construction will not be carried out simultaneously. Therefore, maximum predicted noise level of those activities has been adopted as conservative approach.

**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, dB(A)	Calculated SPL, dB(A)	2021		2022-2030			After 2030	
						Jan-Dec	Before FQ Relocation (Before 2025)	FQ Demolition (Half year)	Excluded Area Construction (3 years)*	Footbridge Construction (2 years)	Min	Max
<b>1) Zone 1</b>												
Activity 5 - Superstructure	108	160	-52	3	59	59	59	59	59			
<b>2) Zone 2</b>												
Activity 5 - Superstructure	111	296	-57	3	56	56	56	56	56			
<b>3) Zone 3</b>												
Activity 5 - Superstructure	109	930	-67	3	44	44	44	44	44			
4) Anchorage Footbridge	104	835	-66	3	40	40	40	40	40			
5) Kowloon Park Footbridge (West)	104	223	-55	3	52							52
6) Kowloon Park Footbridge (South)	104	263	-56	3	50							50
7) West Concrete Batching Plant (Demolition)	97	1140	-69	3	31	31						
8) West Pier (Optional)	112	1475	-71	3	44	44						
9) South Pier (Optional)	112	845	-67	3	49	49						
10) Viewing Platform (Optional)	108	508	-62	3	49	49						
11) Fire Services Department Staff Quarter Demolition	106	185	-53	3	55			55				
<b>12) Excluded Area (Fire Service Department Staff Quarter)</b>												
Activity 1 - D Walling	104	185	-53	3	53						53	
Activity 2 - Bored Piling	108	185	-53	3	57						57	
Activity 3 - Excavation	100	185	-53	3	50						50	
Activity 4 - Basement and Underpass	106	185	-53	3	55						55	
Activity 5 - Superstructure	108	185	-53	3	58						58	
<b>Predicted Noise Level of this Project, dB (A)</b>						62	61	62	63	54	63	

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

Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

\* Activities in excluded area including permanent underpass and superstructure construction will not be carried out simultaneously. Therefore, maximum predicted noise level of those activities has been adopted as conservative approach.

**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, dB(A)	Calculated SPL, dB(A)	2021		2022-2030			After 2030	
						Jan-Dec	Before FQ Relocation (Before 2025)	FQ Demolition (Half year)	Excluded Area Construction (3 years)*	Footbridge Construction (2 years)	Min	Max
<b>1) Zone 1</b>												
Activity 5 - Superstructure	108	93	-47	3	64	64	64	64	64			
<b>2) Zone 2</b>												
Activity 5 - Superstructure	111	260	-56	3	57	57	57	57	57			
<b>3) Zone 3</b>												
Activity 5 - Superstructure	109	904	-67	3	45	45	45	45	45			
4) Anchorage Footbridge	104	871	-67	3	40	40	40	40	40			
5) Kowloon Park Footbridge (West)	104	93	-47	3	59							59
6) Kowloon Park Footbridge (South)	104	139	-51	3	56							56
7) West Concrete Batching Plant (Demolition)	97	1136	-69	3	31	31						
8) West Pier (Optional)	112	1451	-71	3	44	44						
9) South Pier (Optional)	112	786	-66	3	49	49						
10) Viewing Platform (Optional)	108	422	-61	3	51	51						
11) Fire Services Department Staff Quarter Demolition	106	70	-45	3	64			64				
<b>12) Excluded Area (Fire Service Department Staff Quarter)</b>												
Activity 1 - D Walling	104	70	-45	3	62						62	
Activity 2 - Bored Piling	108	70	-45	3	66						66	
Activity 3 - Excavation	100	70	-45	3	58						58	
Activity 4 - Basement and Underpass	106	70	-45	3	64						64	
Activity 5 - Superstructure	108	70	-45	3	66						66	
<b>Predicted Noise Level of this Project, dB (A)</b>						65	65	67	69	61	69	

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

Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

\* Activities in excluded area including permanent underpass and superstructure construction will not be carried out simultaneously. Therefore, maximum predicted noise level of those activities has been adopted as conservative approach.

**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, dB(A)	Calculated SPL, dB(A)	2021	2022-2030			After 2030	
						Jan-Dec	Before FQ Relocation (Before 2025)	FQ Demolition (Half year)	Excluded Area Construction (3 years)*	Footbridge Construction (2 years)	
<b>1) Zone 1</b>											
Activity 5 - Superstructure	108	102	-48	3	63	63	63	63	63		
<b>2) Zone 2</b>											
Activity 5 - Superstructure	111	283	-57	3	57	57	57	57	57		
<b>3) Zone 3</b>											
Activity 5 - Superstructure	109	925	-67	3	44	44	44	44	44		
4) Anchorage Footbridge	104	874	-67	3	40	40	40	40	40		
5) Kowloon Park Footbridge (West)	104	137	-51	3	56					56	
6) Kowloon Park Footbridge (South)	104	187	-53	3	53					53	
7) West Concrete Batching Plant (Demolition)	97	1151	-69	3	31	31					
8) West Pier (Optional)	112	1471	-71	3	44	44					
9) South Pier (Optional)	112	816	-66	3	49	49					
10) Viewing Platform (Optional)	108	462	-61	3	50	50					
11) Fire Services Department Staff Quarter Demolition	106	109	-49	3	60			60			
<b>12) Excluded Area (Fire Service Department Staff Quarter)</b>											
Activity 1 - D Walling	104	109	-49	3	58				58		
Activity 2 - Bored Piling	108	109	-49	3	62				62		
Activity 3 - Excavation	100	109	-49	3	55				55		
Activity 4 - Basement and Underpass	106	109	-49	3	60				60		
Activity 5 - Superstructure	108	109	-49	3	63				63		
<b>Predicted Noise Level of this Project, dB (A)</b>						64	64	65	66	58	66

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

Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

\* Activities in excluded area including permanent underpass and superstructure construction will not be carried out simultaneously. Therefore, maximum predicted noise level of those activities has been adopted as conservative approach.

**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, dB(A)	Calculated SPL, dB(A)	2021		2022-2030			After 2030 Footbridge Construction (2 years)	
						Jan-Dec	Before FQ Relocation (Before 2025)	FQ Demolition (Half year)	Excluded Area Construction (3 years)*			
<b>1) Zone 1</b>												
Activity 5 - Superstructure	108	100	-48	3	63	63	63	63	63			
<b>2) Zone 2</b>												
Activity 5 - Superstructure	111	270	-57	3	57	57	57	57	57			
<b>3) Zone 3</b>												
Activity 5 - Superstructure	109	912	-67	3	45	45	45	45	45			
4) Anchorage Footbridge	104	903	-67	3	39	39	39	39	39			
5) Kowloon Park Footbridge (West)	104	33	-38	3	68						68	
6) Kowloon Park Footbridge (South)	104	105	-48	3	58						58	
7) West Concrete Batching Plant (Demolition)	97	1150	-69	3	31	31						
8) West Pier (Optional)	112	1455	-71	3	44	44						
9) South Pier (Optional)	112	780	-66	3	49	49						
10) Viewing Platform (Optional)	108	398	-60	3	51	51						
11) Fire Services Department Staff Quarter Demolition	106	50	-42	3	67			67				
<b>12) Excluded Area (Fire Service Department Staff Quarter)</b>												
Activity 1 - D Walling	104	50	-42	3	65					65		
Activity 2 - Bored Piling	108	50	-42	3	69					69		
Activity 3 - Excavation	100	50	-42	3	61					61		
Activity 4 - Basement and Underpass	106	50	-42	3	67					67		
Activity 5 - Superstructure	108	50	-42	3	69					69		
<b>Predicted Noise Level of this Project, dB (A)</b>						65	64	69	70	69		
											<b>Min</b>	<b>Max</b>
											64	70

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

Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

\* Activities in excluded area including permanent underpass and superstructure construction will not be carried out simultaneously. Therefore, maximum predicted noise level of those activities has been adopted as conservative approach.

**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, dB(A)	Calculated SPL, dB(A)	2021		2022-2030			After 2030	
						Jan-Dec	Before FQ Relocation (Before 2025)	FQ Demolition (Half year)	Excluded Area Construction (3 years)*	Footbridge Construction (2 years)		
<b>1) Zone 1</b>												
Activity 5 - Superstructure	108	115	-49	3	62	62	62	62	62	62		
<b>2) Zone 2</b>												
Activity 5 - Superstructure	111	280	-57	3	57	57	57	57	57	57		
<b>3) Zone 3</b>												
Activity 5 - Superstructure	109	916	-67	3	45	45	45	45	45	45		
4) Anchorage Footbridge	104	915	-67	3	39	39	39	39	39	39		
5) Kowloon Park Footbridge (West)	104	14	-31	3	<b>76</b>						<b>76</b>	
6) Kowloon Park Footbridge (South)	104	100	-48	3	59						59	
7) West Concrete Batching Plant (Demolition)	97	1155	-69	3	31	31						
8) West Pier (Optional)	112	1455	-71	3	44	44						
9) South Pier (Optional)	112	775	-66	3	49	49						
10) Viewing Platform (Optional)	108	400	-60	3	51	51						
11) Fire Services Department Staff Quarter Demolition	106	50	-42	3	67			67				
<b>12) Excluded Area (Fire Service Department Staff Quarter)</b>												
Activity 1 - D Walling	104	50	-42	3	65					65		
Activity 2 - Bored Piling	108	50	-42	3	69					69		
Activity 3 - Excavation	100	50	-42	3	61					61		
Activity 4 - Basement and Underpass	106	50	-42	3	67					67		
Activity 5 - Superstructure	108	50	-42	3	69					69		
<b>Predicted Noise Level of this Project, dB (A)</b>						<b>64</b>	<b>63</b>	<b>68</b>	<b>70</b>	<b>76</b>	<b>76</b>	
											<b>Min</b>	<b>Max</b>
											63	76

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

Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

\* Activities in excluded area including permanent underpass and superstructure construction will not be carried out simultaneously. Therefore, maximum predicted noise level of those activities has been adopted as conservative approach.

**Mitigated Construction Noise Impact**

**NSR: FQa (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, dB(A)	Calculated SPL, dB(A)	2021		2022-2030		After 2030
						Jan-Dec	Before FQ Relocation (Before 2025)	FQ Demolition (Half year)	Excluded Area Construction (3 years)*	Footbridge Construction (2 years)
<b>1) Zone 1</b>										
Activity 5 - Superstructure	108	48	-42	3	70	70	70			
<b>2) Zone 2</b>										
Activity 5 - Superstructure	111	172	-53	3	61	61	61			
<b>3) Zone 3</b>										
Activity 5 - Superstructure	109	810	-66	3	46	46	46			
4) Anchorage Footbridge	104	815	-66	3	40	40	40			
5) Kowloon Park Footbridge (West)	104	89	-47	3	60					
6) Kowloon Park Footbridge (South)	104	56	-43	3	64					
7) West Concrete Batching Plant (Demolition)	97	1050	-68	3	31	31				
8) West Pier (Optional)	112	1350	-71	3	45	45				
9) South Pier (Optional)	112	680	-65	3	51	51				
10) Viewing Platform (Optional)	108	311	-58	3	53	53				
<b>11) Fire Services Department Staff Quarter Demolition</b>										
<b>12) Excluded Area (Fire Service Department Staff Quarter)</b>										
Activity 1 - D Walling										
Activity 2 - Bored Piling										
Activity 3 - Excavation										
Activity 4 - Basement and Underpass										
Activity 5 - Superstructure	108									
<b>Predicted Noise Level of this Project, dB (A)</b>						70	70			0
										<b>Min</b>
										<b>Max</b>
										70
										70

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

Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

\* Activities in excluded area including permanent underpass and superstructure construction will not be carried out simultaneously. Therefore, maximum predicted noise level of those activities has been adopted as conservative approach.

**Mitigated Construction Noise Impact**

**NSR: FQb (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, dB(A)	Calculated SPL, dB(A)	2021	2022-2030			After 2030	
						Jan-Dec	Before FQ Relocation (Before 2025)	FQ Demolition (Half year)	Excluded Area Construction (3 years)*	Footbridge Construction (2 years)	
<b>1) Zone 1</b>											
Activity 5 - Superstructure	108	59	-43	3	68	68	68				
<b>2) Zone 2</b>											
Activity 5 - Superstructure	111	181	-53	3	60	60	60				
<b>3) Zone 3</b>											
Activity 5 - Superstructure	109	808	-66	3	46	46	46				
4) Anchorage Footbridge	104	825	-66	3	40	40	40				
5) Kowloon Park Footbridge (West)	104	82	-46	3	60						
6) Kowloon Park Footbridge (South)	104	45	-41	3	66						
7) West Concrete Batching Plant (Demolition)	97	1053	-68	3	31	31					
8) West Pier (Optional)	112	1353	-71	3	45	45					
9) South Pier (Optional)	112	675	-65	3	51	51					
10) Viewing Platform (Optional)	108	306	-58	3	54	54					
<b>11) Fire Services Department Staff Quarter Demolition</b>											
<b>12) Excluded Area (Fire Service Department Staff Quarter)</b>											
Activity 1 - D Walling											
Activity 2 - Bored Piling											
Activity 3 - Excavation											
Activity 4 - Basement and Underpass											
Activity 5 - Superstructure	108										
<b>Predicted Noise Level of this Project, dB (A)</b>						69	69				
										<b>Min</b>	<b>Max</b>
										69	69

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

Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

\* Activities in excluded area including permanent underpass and superstructure construction will not be carried out simultaneously. Therefore, maximum predicted noise level of those activities has been adopted as conservative approach.



**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)	2021		2022-2030			After 2030
						Jan-Dec	Before FQ Relocation (Before 2025)	FQ Demolition (Half year)	Excluded Area Construction (3 years)*	Footbridge Construction (2 years)	
<b>1) Zone 1</b>											
Activity 5 - Superstructure	108	759	-66	3	46	46	46	46	46		
<b>2) Zone 2</b>											
Activity 5 - Superstructure	111	333	-58	3	55	55	55	55	55		
<b>3) Zone 3</b>											
Activity 5 - Superstructure	109	377	-60	3	52	52	52	52	52		
4) Anchorage Footbridge	104	58	-43	3	63	63	63	63	63		
5) Kowloon Park Footbridge (West)	104	882	-67	3	40						40
6) Kowloon Park Footbridge (South)	104	813	-66	3	40						40
7) West Concrete Batching Plant (Demolition)	97	451	-61	3	39	39					
8) West Pier (Optional)	112	826	-66	3	49	49					
9) South Pier (Optional)	112	476	-62	3	54	54					
10) Viewing Platform (Optional)	108	561	-63	3	48	48					
11) Fire Services Department Staff Quarter Demolition	106	751	-66	3	43			43			
<b>12) Excluded Area (Fire Service Department Staff Quarter)</b>											
Activity 1 - D Walling	104	751	-66	3	41					41	
Activity 2 - Bored Piling	108	751	-66	3	45					45	
Activity 3 - Excavation	100	751	-66	3	38					38	
Activity 4 - Basement and Underpass	106	751	-66	3	43					43	
Activity 5 - Superstructure	108	751	-66	3	46					46	
<b>Predicted Noise Level of this Project, dB (A)</b>						<b>65</b>	<b>64</b>	<b>64</b>	<b>64</b>	<b>43</b>	<b>65</b>

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

Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

\* Activities in excluded area including permanent underpass and superstructure construction will not be carried out simultaneously. Therefore, maximum predicted noise level of those activities has been adopted as conservative approach.

**Mitigated Construction Noise Impact**

**NSR: P3**

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)	2022-2030				After 2030 Footbridge Construction (2 years)	
						2021 Jan-Dec	Before FQ Relocation (Before 2025)	FQ Demolition (Half year)	Excluded Area Construction (3 years)*		
<b>1) Zone 1</b>											
Activity 5 - Superstructure											
<b>2) Zone 2</b>											
Activity 5 - Superstructure											
<b>3) Zone 3</b>											
Activity 5 - Superstructure											
<b>4) Anchorage Footbridge</b>											
5) Kowloon Park Footbridge (West)	104	75	-46	3	61					61	
6) Kowloon Park Footbridge (South)	104	30	-38	3	69					69	
<b>7) West Concrete Batching Plant (Demolition)</b>											
<b>8) West Pier (Optional)</b>											
<b>9) South Pier (Optional)</b>											
<b>10) Viewing Platform (Optional)</b>											
<b>11) Fire Services Department Staff Quarter Demolition</b>											
<b>12) Excluded Area (Fire Service Department Staff Quarter)</b>											
Activity 1 - D Walling											
Activity 2 - Bored Piling											
Activity 3 - Excavation											
Activity 4 - Basement and Underpass											
Activity 5 - Superstructure											
<b>Predicted Noise Level of this Project, dB (A)</b>										<b>Min</b>	<b>Max</b>
										0	70

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

Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

\* Activities in excluded area including permanent underpass and superstructure construction will not be carried out simultaneously. Therefore, maximum predicted noise level of those activities has been adopted as conservative approach.

**Mitigated Construction Noise Impact**

**NSR: P6**

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)	2021		2022-2030			After 2030	
						Jan-Dec	Before FQ Relocation (Before 2025)	FQ Demolition (Half year)	Excluded Area Construction (3 years)*	Footbridge Construction (2 years)	Min	Max
<b>1) Zone 1</b>												
Activity 5 - Superstructure	108	124	-50	3	61	61	61	61	61			
<b>2) Zone 2</b>												
Activity 5 - Superstructure	111	35	-39	3	75	75	75	75	75			
<b>3) Zone 3</b>												
Activity 5 - Superstructure	109	663	-64	3	47	47	47	47	47			
4) Anchorage Footbridge	104	666	-64	3	42	42	42	42	42			
5) Kowloon Park Footbridge (West)	104	243	-56	3	51							51
6) Kowloon Park Footbridge (South)	104	187	-53	3	53							53
7) West Concrete Batching Plant (Demolition)	97	915	-67	3	33	33						
8) West Pier (Optional)	112	1215	-70	3	46	46						
9) South Pier (Optional)	112	566	-63	3	52	52						
10) Viewing Platform (Optional)	108	232	-55	3	56	56						
11) Fire Services Department Staff Quarter Demolition	106	104	-48	3	60			60				
<b>12) Excluded Area (Fire Service Department Staff Quarter)</b>												
Activity 1 - D Walling	104	104	-48	3	58						58	
Activity 2 - Bored Piling	108	104	-48	3	62						62	
Activity 3 - Excavation	100	104	-48	3	55						55	
Activity 4 - Basement and Underpass	106	104	-48	3	60						60	
Activity 5 - Superstructure	108	104	-48	3	63						63	
<b>Predicted Noise Level of this Project, dB (A)</b>						75	75	75	75	75	55	75

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

Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

\* Activities in excluded area including permanent underpass and superstructure construction will not be carried out simultaneously. Therefore, maximum predicted noise level of those activities has been adopted as conservative approach.

**Mitigated Construction Noise Impact**

**NSR: P7**

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)	2021		2022-2030			After 2030 Footbridge Construction (2 years)	
						Jan-Dec	Before FQ Relocation (Before 2025)	FQ Demolition (Half year)	Excluded Area Construction (3 years)*			
<b>1) Zone 1</b>												
Activity 5 - Superstructure	108	45	-41	3	70	70	70	70	70			
<b>2) Zone 2</b>												
Activity 5 - Superstructure	111	66	-44	3	69	69	69	69	69			
<b>3) Zone 3</b>												
Activity 5 - Superstructure	109	696	-65	3	47	47	47	47	47			
4) Anchorage Footbridge	104	711	-65	3	42	42	42	42	42			
5) Kowloon Park Footbridge (West)	104	162	-52	3	54						54	
6) Kowloon Park Footbridge (South)	104	118	-49	3	57						57	
7) West Concrete Batching Plant (Demolition)	97	950	-68	3	32	32						
8) West Pier (Optional)	112	1250	-70	3	45	45						
9) South Pier (Optional)	112	601	-64	3	52	52						
10) Viewing Platform (Optional)	108	252	-56	3	55	55						
11) Fire Services Department Staff Quarter Demolition	106	104	-48	3	60			60				
<b>12) Excluded Area (Fire Service Department Staff</b>												
Activity 1 - D Walling	104	104	-48	3	58					58		
Activity 2 - Bored Piling	108	104	-48	3	62					62		
Activity 3 - Excavation	100	104	-48	3	55					55		
Activity 4 - Basement and Underpass	106	104	-48	3	60					60		
Activity 5 - Superstructure	108	104	-48	3	63					63		
<b>Predicted Noise Level of this Project, dB (A)</b>						<b>73</b>	<b>73</b>	<b>73</b>	<b>73</b>	<b>63</b>	<b>59</b>	<b>73</b>

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

Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

\* Activities after Fire Service Department Staff Quarter in excluded area will not be carried out simultaneously. Therefore, maximum predicted noise level of those activities has been adopted as conservative approach.

**Mitigated Construction Noise Impact**

**NSR: P13**

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)	2021	2022-2030			After 2030	
						Jan-Dec	Before FQ Relocation (Before 2025)	FQ Demolition (Half year)	Excluded Area Construction (3 years)*	Footbridge Construction (2 years)	
<b>1) Zone 1</b>											
Activity 5 - Superstructure	108	45	-41	3	70	70	70	70	70		
<b>2) Zone 2</b>											
Activity 5 - Superstructure	111	66	-44	3	69	69	69	69	69		
<b>3) Zone 3</b>											
Activity 5 - Superstructure	109	696	-65	3	47	47	47	47	47		
4) Anchorage Footbridge	104	711	-65	3	42	42	42	42	42		
5) Kowloon Park Footbridge (West)	104	162	-52	3	54					54	
6) Kowloon Park Footbridge (South)	104	118	-49	3	57					57	
7) West Concrete Batching Plant (Demolition)	97	950	-68	3	32	32					
8) West Pier (Optional)	112	1250	-70	3	45	45					
9) South Pier (Optional)	112	601	-64	3	52	52					
10) Viewing Platform (Optional)	108	252	-56	3	55	55					
11) Fire Services Department Staff Quarter Demolition	106	104	-48	3	60			60			
<b>12) Excluded Area (Fire Service Department Staff</b>											
Activity 1 - D Walling	104	104	-48	3	58				58		
Activity 2 - Bored Piling	108	104	-48	3	62				62		
Activity 3 - Excavation	100	104	-48	3	55				55		
Activity 4 - Basement and Underpass	106	104	-48	3	60				60		
Activity 5 - Superstructure	108	104	-48	3	63				63		
<b>Predicted Noise Level of this Project, dB (A)</b>						73	73	73	73	59	73

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

Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

\* Activities after Fire Service Department Staff Quarter in excluded area will not be carried out simultaneously. Therefore, maximum predicted noise level of those activities has been adopted as conservative approach.

**Mitigated Construction Noise Impact**

**NSR: P17**

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)	2021		2022-2030			After 2030 Footbridge Construction (2 years)
						Jan-Dec	Before FQ Relocation (Before 2025)	FQ Demolition (Half year)	Excluded Area Construction (3 years)*		
<b>1) Zone 1</b>											
Activity 5 - Superstructure	108	192	-54	3	58	58	58	58	58		
<b>2) Zone 2</b>											
Activity 5 - Superstructure	111	53	-42	3	71	71	71	71	71		
<b>3) Zone 3</b>											
Activity 5 - Superstructure	109	541	-63	3	49	49	49	49	49		
4) Anchorage Footbridge	104	611	-64	3	43	43	43	43	43		
5) Kowloon Park Footbridge (West)	104	301	-58	3	49						49
6) Kowloon Park Footbridge (South)	104	242	-56	3	51						51
7) West Concrete Batching Plant (Demolition)	97	800	-66	3	34	34					
8) West Pier (Optional)	112	1100	-69	3	46	46					
9) South Pier (Optional)	112	451	-61	3	54	54					
10) Viewing Platform (Optional)	108	123	-50	3	61	61					
11) Fire Services Department Staff Quarter Demolition	106	242	-56	3	53			53			
<b>12) Excluded Area (Fire Service Department Staff</b>											
Activity 1 - D Walling	104	242	-56	3	51					51	
Activity 2 - Bored Piling	108	242	-56	3	55					55	
Activity 3 - Excavation	100	242	-56	3	48					48	
Activity 4 - Basement and Underpass	106	242	-56	3	53					53	
Activity 5 - Superstructure	108	242	-56	3	56					56	
<b>Predicted Noise Level of this Project, dB (A)</b>						<b>72</b>	<b>71</b>	<b>71</b>	<b>71</b>	<b>53</b>	<b>72</b>

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

Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

\* Activities after Fire Service Department Staff Quarter in excluded area will not be carried out simultaneously. Therefore, maximum predicted noise level of those activities has been adopted as conservative approach.

**Mitigated Construction Noise Impact**

**NSR: P17**

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)	2021		2022-2030			After 2030	
						Jan-Dec	Before FQ Relocation (Before 2025)	FQ Demolition (Half year)	Excluded Area Construction (3 years)*	Footbridge Construction (2 years)	Min	Max
<b>1) Zone 1</b>												
Activity 5 - Superstructure	108	332	-58	3	53	53	53	53	53			
<b>2) Zone 2</b>												
Activity 5 - Superstructure	111	168	-53	3	61	61	61	61	61			
<b>3) Zone 3</b>												
Activity 5 - Superstructure	109	401	-60	3	52	52	52	52	52			
4) Anchorage Footbridge	104	476	-62	3	45	45	45	45	45			
5) Kowloon Park Footbridge (West)	104	456	-61	3	45							45
6) Kowloon Park Footbridge (South)	104	386	-60	3	47							47
7) West Concrete Batching Plant (Demolition)	97	651	-64	3	36	36						
8) West Pier (Optional)	112	951	-68	3	48	48						
9) South Pier (Optional)	112	351	-59	3	56	56						
10) Viewing Platform (Optional)	108	153	-52	3	60	60						
11) Fire Services Department Staff Quarter Demolition	106	376	-60	3	49			49				
<b>12) Excluded Area (Fire Service Department Staff</b>												
Activity 1 - D Walling	104	376	-60	3	47						47	
Activity 2 - Bored Piling	108	376	-60	3	51						51	
Activity 3 - Excavation	100	376	-60	3	44						44	
Activity 4 - Basement and Underpass	106	376	-60	3	49						49	
Activity 5 - Superstructure	108	376	-60	3	52						52	
<b>Predicted Noise Level of this Project, dB (A)</b>						65	62	62	63	49	49	65

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

Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

\* Activities after Fire Service Department Staff Quarter in excluded area will not be carried out simultaneously. Therefore, maximum predicted noise level of those activities has been adopted as conservative approach.

**Mitigated Construction Noise Impact**

**NSR: P17**

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)	2021		2022-2030			After 2030
						Jan-Dec	Before FQ Relocation (Before 2025)	FQ Demolition (Half year)	Excluded Area Construction (3 years)*	Footbridge Construction (2 years)	
<b>1) Zone 1</b>											
Activity 5 - Superstructure	108	400	-60	3	51	51	51	51	51	51	
<b>2) Zone 2</b>											
Activity 5 - Superstructure	111	131	-50	3	63	63	63	63	63	63	
<b>3) Zone 3</b>											
Activity 5 - Superstructure	109	340	-59	3	53	53	53	53	53	53	
4) Anchorage Footbridge	104	515	-62	3	44	44	44	44	44	44	
5) Kowloon Park Footbridge (West)	104	510	-62	3	44						44
6) Kowloon Park Footbridge (South)	104	440	-61	3	46						46
7) West Concrete Batching Plant (Demolition)	97	625	-64	3	36	36					
8) West Pier (Optional)	112	890	-67	3	48	48					
9) South Pier (Optional)	112	251	-56	3	59	59					
10) Viewing Platform (Optional)	108	87	-47	3	65	65					
11) Fire Services Department Staff Quarter Demolition	106	242	-56	3	53			53			
<b>12) Excluded Area (Fire Service Department Staff</b>											
Activity 1 - D Walling	104	242	-56	3	51					51	
Activity 2 - Bored Piling	108	242	-56	3	55					55	
Activity 3 - Excavation	100	242	-56	3	48					48	
Activity 4 - Basement and Underpass	106	242	-56	3	53					53	
Activity 5 - Superstructure	108	242	-56	3	56					56	
<b>Predicted Noise Level of this Project, dB (A)</b>						68	64	64	65	48	68

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

Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

\* Activities after Fire Service Department Staff Quarter in excluded area will not be carried out simultaneously. Therefore, maximum predicted noise level of those activities has been adopted as conservative approach.



**Mitigated Construction Noise Impact**

**NSR: P29**

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)	2021		2022-2030			After 2030 Footbridge Construction (2 years)
						Jan-Dec	Before FQ Relocation (Before 2025)	FQ Demolition (Half year)	Excluded Area Construction (3 years)*		
<b>1) Zone 1</b>											
Activity 5 - Superstructure	108	628	-64	3	47	47	47	47	47		
<b>2) Zone 2</b>											
Activity 5 - Superstructure	111	90	-47	3	66	66	66	66	66		
<b>3) Zone 3</b>											
Activity 5 - Superstructure	109	161	-52	3	60	60	60	60	60		
4) Anchorage Footbridge	104	366	-59	3	47	47	47	47	47		
5) Kowloon Park Footbridge (West)	104	741	-65	3	41						41
6) Kowloon Park Footbridge (South)	104	671	-65	3	42						42
7) West Concrete Batching Plant (Demolition)	97	396	-60	3	40	40					
8) West Pier (Optional)	112	706	-65	3	50	50					
9) South Pier (Optional)	112	217	-55	3	60	60					
10) Viewing Platform (Optional)	108	374	-59	3	52	52					
11) Fire Services Department Staff Quarter Demolition	106	626	-64	3	45			45			
<b>12) Excluded Area (Fire Service Department Staff Quarter)</b>											
Activity 1 - D Walling	104	626	-64	3	43					43	
Activity 2 - Bored Piling	108	626	-64	3	47					47	
Activity 3 - Excavation	100	626	-64	3	39					39	
Activity 4 - Basement and Underpass	106	626	-64	3	45					45	
Activity 5 - Superstructure	108	626	-64	3	47					47	
<b>Predicted Noise Level of this Project, dB (A)</b>						68	67	67	67	45	68

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

Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

\* Activities in excluded area including permanent underpass and superstructure construction will not be carried out simultaneously. Therefore, maximum predicted noise level of those activities has been adopted as conservative approach.

**Mitigated Construction Noise Impact**

**NSR: P32a**

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)	2021		2022-2030			After 2030 Footbridge Construction (2 years)	
						Jan-Dec	Before FQ Relocation (Before 2025)	FQ Demolition (Half year)	Excluded Area Construction (3 years)*			
<b>1) Zone 1</b>												
Activity 5 - Superstructure	108	642	-64	3	47	47	47	47	47			
<b>2) Zone 2</b>												
Activity 5 - Superstructure	111	36	-39	3	74	74	74	74	74			
<b>3) Zone 3</b>												
Activity 5 - Superstructure	109	169	-53	3	59	59	59	59	59			
4) Anchorage Footbridge	104	470	-61	3	45	45	45	45	45			
5) Kowloon Park Footbridge (West)	104	740	-65	3	41						41	
6) Kowloon Park Footbridge (South)	104	663	-64	3	42						42	
7) West Concrete Batching Plant (Demolition)	97	425	-61	3	39	39						
8) West Pier (Optional)	112	690	-65	3	50	50						
9) South Pier (Optional)	112	114	-49	3	66	66						
10) Viewing Platform (Optional)	108	335	-59	3	53	53						
11) Fire Services Department Staff Quarter Demolition	106	650	-64	3	44			44				
<b>12) Excluded Area (Fire Service Department Staff Quarter)</b>												
Activity 1 - D Walling	104	650	-64	3	42					42		
Activity 2 - Bored Piling	108	650	-64	3	46					46		
Activity 3 - Excavation	100	650	-64	3	39					39		
Activity 4 - Basement and Underpass	106	650	-64	3	44					44		
Activity 5 - Superstructure	108	650	-64	3	47					47		
<b>Predicted Noise Level of this Project, dB (A)</b>						<b>75</b>	<b>74</b>	<b>74</b>	<b>74</b>	<b>74</b>	<b>45</b>	<b>75</b>

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

Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

\* Activities in excluded area including permanent underpass and superstructure construction will not be carried out simultaneously. Therefore, maximum predicted noise level of those activities has been adopted as conservative approach.

**Mitigated Construction Noise Impact**

**NSR: P32b**

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)	2021		2022-2030			After 2030 Footbridge Construction (2 years)
						Jan-Dec	Before FQ Relocation (Before 2025)	FQ Demolition (Half year)	Excluded Area Construction (3 years)*		
<b>1) Zone 1</b>											
Activity 5 - Superstructure	108	660	-64	3	47	47	47	47	47		
<b>2) Zone 2</b>											
Activity 5 - Superstructure	111	50	-42	3	72	72	72	72	72		
<b>3) Zone 3</b>											
Activity 5 - Superstructure	109	156	-52	3	60	60	60	60	60		
4) Anchorage Footbridge	104	475	-62	3	45	45	45	45	45		
5) Kowloon Park Footbridge (West)	104	755	-66	3	41						41
6) Kowloon Park Footbridge (South)	104	680	-65	3	42						42
7) West Concrete Batching Plant (Demolition)	97	420	-60	3	39	39					
8) West Pier (Optional)	112	680	-65	3	51	51					
9) South Pier (Optional)	112	109	-49	3	67	67					
10) Viewing Platform (Optional)	108	353	-59	3	52	52					
11) Fire Services Department Staff Quarter Demolition	106	650	-64	3	44			44			
<b>12) Excluded Area (Fire Service Department Staff Quarter)</b>											
Activity 1 - D Walling	104	650	-64	3	42					42	
Activity 2 - Bored Piling	108	650	-64	3	46					46	
Activity 3 - Excavation	100	650	-64	3	39					39	
Activity 4 - Basement and Underpass	106	650	-64	3	44					44	
Activity 5 - Superstructure	108	650	-64	3	47					47	
<b>Predicted Noise Level of this Project, dB (A)</b>						<b>73</b>	<b>72</b>	<b>72</b>	<b>72</b>	<b>44</b>	<b>73</b>

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

Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

\* Activities in excluded area including permanent underpass and superstructure construction will not be carried out simultaneously. Therefore, maximum predicted noise level of those activities has been adopted as conservative approach.