

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	Zone 1							
	Activity 1 - D Walling							
	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
Activity 2 - Bored Piling								
Group 1								
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
Group 2								
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	Zone 2							
	Activity 1 - D Walling							
	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
Activity 2 - Bored Piling								
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	Zone 3							
	Activity 1 - D Walling							
	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	Park Construction - Zone A							
	Activity 1 - Park Construction [3]							
	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)	
	Activity 2 - Superstructure [3]								
	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	ICC Footbridge								
	Group 1								
	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
	Group 2								
	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	East Concrete Batching Plant (Operation)								
	Group 1								
	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
	Group 2								
	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	Barging Points								
	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	Pier Construction (Optional)								
	Group 1								
	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
	Group 2								
	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	EPD-01516	101	1	60%	-5	Movable Barrier	94	
	Tug boat	CNP 221	110	1	60%			108	
	Total SWL, dB (A)								112
	Group 3								
	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%			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	Viewing Platform (Optional)								
	Group 1								
	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
	Group 2								
	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

[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				
1) Zone 1																	
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				
2) Zone 2																	
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				
3) Zone 3																	
Activity 1 - D Walling	107	272	-57	3	54								54				
4) Park Construction - Zone A																	
	109	576	-63	3	49			49	49	49	49	49	49				
5) ICC Footbridge																	
	106	211	-54	3	54			54	54	54	54	54	54				
6) East Concrete Batching Plant (Operation)																	
	109	461	-61	3	50						50	50	50				
7) Barging Point (BP)																	
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				
8) West Pier (Optional)																	
	112	846	-67	3	48			48	48	48	48	48	48				
9) South Pier (Optional)																	
	112	347	-59	3	56			56	56	56	56	56	56				
10) Viewing Platform (Optional)																	
	108	342	-59	3	52			52	52	52	52	52	52				
Predicted Noise Level of this Project, dB (A)								63	63	63	67	67	73	63	63	67	73
Predicted Noise Level of Express Rail Link, dB(A)¹								70	66	62	70	65	62				
Predicted Noise Level of Road Works at West Kowloon, dB(A)²								70	70	70	70	70	70				
Overall Cumulative Noise Level, dB(A)								73	72	71	74	73	75	71	73	73	75
											2013	2014					
											Min	Max	Min	Max			

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

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

Mitigated Construction Noise Impact

NSR: HT3 (The Harbourside Tower 3)

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB (A)	Facade Correction, dB(A)	Calculated SPL, dB(A)	2013					2014											
						8	9	10	11	12	1	2	3									
1) Zone 1																						
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								
2) Zone 2																						
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						
3) Zone 3																						
Activity 1 - D Walling	107	189	-54	3	57											57						
4) Park Construction - Zone A																						
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						
7) Barging Point (BP)																						
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								
8) West Pier (Optional)																						
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								
Predicted Noise Level of this Project, dB (A)								64	64	64	66	66	72	64	64	66	72					
Predicted Noise Level of Express Rail Link, dB(A)¹								65	65	63	65	63	63									
Predicted Noise Level of Road Works at West Kowloon, dB(A)²								68	68	68	68	68	68									
Overall Cumulative Noise Level, dB(A)								71	71	70	71	71	74	70	71	71	74					
													2013		2014							
													Min	Max	Min	Max						

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

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

Mitigated Construction Noise Impact

NSR: AST (The Arch - Sun Tower)

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB (A)	Facade Correction, dB(A)	Calculated SPL, dB(A)	2013					2014						
						8	9	10	11	12	1	2	3				
1) Zone 1																	
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			
2) Zone 2																	
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	
3) Zone 3																	
Activity 1 - D Walling	107	362	-59	3	51											51	
4) Park Construction - Zone A																	
ICC Footbridge	106	299	-58	3	51			51	51	51	51	51	51	51			
6) East Concrete Batching Plant (Operation)																	
Barging Point (BP)	109	377	-60	3	52											52	
7) Barging Point (BP)																	
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			
8) West Pier (Optional)																	
West Pier	112	936	-67	3	47			47	47	47	47	47	47	47			
9) South Pier (Optional)																	
South Pier	112	397	-60	3	55			55	55	55	55	55	55	55			
10) Viewing Platform (Optional)																	
Viewing Platform	108	297	-57	3	54			54	54	54	54	54	54	54			
Predicted Noise Level of this Project, dB (A)								61	61	61	66	66	73	61	61	66	73
Predicted Noise Level of Express Rail Link, dB(A)¹								74	73	69	74	71	69				
Predicted Noise Level of Road Works at West Kowloon, dB(A)²								69	69	69	69	69	69				
Overall Cumulative Noise Level, dB(A)								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				
1) Zone 1																	
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			
2) Zone 2																	
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	
3) Zone 3																	
Activity 1 - D Walling	107	905	-67	3	43											43	
4) Park Construction - Zone A																	
Activity 1 - D Walling	109	1107	-69	3	43			43	43	43	43	43	43	43			
5) ICC Footbridge																	
Activity 1 - D Walling	106	840	-66	3	42			42	42	42	42	42	42	42			
6) East Concrete Batching Plant (Operation)																	
Activity 1 - D Walling	109	215	-55	3	57							57	57	57			
7) Barging Point (BP)																	
BP4	110	805	-66	3	47			47	47	47	47	47	47	47			
BP5	110	850	-67	3	46			46	46	46	46	46	46	46			
BP6	110	1060	-69	3	44			44	44	44	44	44	44	44			
BP7	110	1160	-69	3	43			43	43	43	43	43	43	43			
8) West Pier (Optional)																	
Activity 1 - D Walling	112	1475	-71	3	43			43	43	43	43	43	43	43			
9) South Pier (Optional)																	
Activity 1 - D Walling	112	845	-67	3	48			48	48	48	48	48	48	48			
10) Viewing Platform (Optional)																	
Activity 1 - D Walling	108	508	-62	3	49			49	49	49	49	49	49	49			
Predicted Noise Level of this Project, dB (A)								60	60	60	66	65	66	60	60	65	66
Predicted Noise Level of Express Rail Link, dB(A)¹								66	63	60	66	58	56				
Predicted Noise Level of Road Works at West Kowloon, dB(A)²								64	64	64	64	64	64				
Predicted Noise Level of Road Improvement Works in West Kowloon Reclamation, dB(A)³												46	63	Min	Max	Min	Max
Overall Cumulative Noise Level, dB(A)								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									
1) Zone 1																						
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								
2) Zone 2																						
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						
3) Zone 3																						
Activity 1 - D Walling	107	886	-67	3	43											43						
4) Park Construction - Zone A																						
Activity 1 - D Walling	109	1042	-68	3	44			44	44	44	44	44	44	44	44	44						
5) ICC Footbridge																						
Activity 1 - D Walling	106	827	-66	3	42			42	42	42	42	42	42	42	42	42						
6) East Concrete Batching Plant (Operation)																						
Activity 1 - D Walling	109	158	-52	3	60								60	60	60	60						
7) Barging Point (BP)																						
BP4	110	751	-66	3	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						
BP6	110	1001	-68	3	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						
8) West Pier (Optional)																						
Activity 1 - D Walling	112	1451	-71	3	43			43	43	43	43	43	43	43	43	43						
9) South Pier (Optional)																						
Activity 1 - D Walling	112	786	-66	3	49			49	49	49	49	49	49	49	49	49						
10) Viewing Platform (Optional)																						
Activity 1 - D Walling	108	422	-61	3	51			51	51	51	51	51	51	51	51	51						
Predicted Noise Level of this Project, dB (A)								62	62	62	68	67	68	62	62	67	68					
Predicted Noise Level of Express Rail Link, dB(A)¹								68	65	64	67	61	59									
Predicted Noise Level of Road Works at West Kowloon, dB(A)²								60	60	60	60	60	60									
Predicted Noise Level of Road Improvement Works in West Kowloon Reclamation, dB(A)³														42	59	Min	Max					
Overall Cumulative Noise Level, dB(A)								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 WKCDA 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 WKCDA 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									
1) Zone 1																						
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								
2) Zone 2																						
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						
3) Zone 3																						
Activity 1 - D Walling	107	901	-67	3	43											43						
4) Park Construction - Zone A																						
ICC Footbridge	106	846	-67	3	42			42	42	42	42	42	42	42	42							
6) East Concrete Batching Plant (Operation)																						
BP4	110	781	-66	3	47			47	47	47	47	47	47	47	47							
BP5	110	831	-66	3	46			46	46	46	46	46	46	46	46							
BP6	110	1036	-68	3	44			44	44	44	44	44	44	44	44							
BP7	110	1131	-69	3	44			44	44	44	44	44	44	44	44							
8) West Pier (Optional)																						
South Pier (Optional)	112	1471	-71	3	43			43	43	43	43	43	43	43	43							
9) South Pier (Optional)																						
Viewing Platform (Optional)	108	462	-61	3	50			50	50	50	50	50	50	50	50							
Predicted Noise Level of this Project, dB (A)								61	61	61	68	67	67	67	61	61	67	68				
Predicted Noise Level of Express Rail Link, dB(A)¹								68	65	64	67	61	59									
Predicted Noise Level of Road Works at West Kowloon, dB(A)²								60	60	60	60	60	60									
Predicted Noise Level of Road Improvement Works in West Kowloon Reclamation, dB(A)³												43	58	Min	Max	Min	Max					
Overall Cumulative Noise Level, dB(A)								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									
1) Zone 1																						
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								
2) Zone 2																						
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						
3) Zone 3																						
Activity 1 - D Walling	107	900	-67	3	43											43						
4) Park Construction - Zone A																						
Activity 1 - D Walling	109	1046	-68	3	44			44	44	44	44	44	44	44	44	44						
5) ICC Footbridge																						
Activity 1 - D Walling	106	843	-67	3	42			42	42	42	42	42	42	42	42	42						
6) East Concrete Batching Plant (Operation)																						
Activity 1 - D Walling	109	160	-52	3	60								60	60	60	60						
7) Barging Point (BP)																						
BP4	110	750	-66	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	1083	-69	3	44			44	44	44	44	44	44	44	44	44						
8) West Pier (Optional)																						
Activity 1 - D Walling	112	1455	-71	3	43			43	43	43	43	43	43	43	43	43						
9) South Pier (Optional)																						
Activity 1 - D Walling	112	780	-66	3	49			49	49	49	49	49	49	49	49	49						
10) Viewing Platform (Optional)																						
Activity 1 - D Walling	108	398	-60	3	51			51	51	51	51	51	51	51	51	51						
Predicted Noise Level of this Project, dB (A)								61	61	61	68	67	68	61	61	67	68					
Predicted Noise Level of Express Rail Link, dB(A)¹								67	62	62	66	60	58									
Predicted Noise Level of Road Works at West Kowloon, dB(A)²								60	60	60	60	60	60									
Predicted Noise Level of Road Improvement Works in West Kowloon Reclamation, dB(A)³														41	62	Min	Max					
Overall Cumulative Noise Level, dB(A)								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								
1) Zone 1																					
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							
2) Zone 2																					
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						
3) Zone 3																					
Activity 1 - D Walling	107	905	-67	3	43										43						
4) Park Construction - Zone A																					
Activity 1 - D Walling	109	1065	-69	3	43			43	43	43	43	43	43	43	43						
5) ICC Footbridge																					
Activity 1 - D Walling	106	847	-67	3	42			42	42	42	42	42	42	42	42						
6) East Concrete Batching Plant (Operation)																					
Activity 1 - D Walling	109	170	-53	3	59								59	59	59						
7) Barging Point (BP)																					
BP4	110	745	-65	3	47			47	47	47	47	47	47	47	47						
BP5	110	795	-66	3	47			47	47	47	47	47	47	47	47						
BP6	110	993	-68	3	45			45	45	45	45	45	45	45	45						
BP7	110	1080	-69	3	44			44	44	44	44	44	44	44	44						
8) West Pier (Optional)																					
Activity 1 - D Walling	112	1455	-71	3	43			43	43	43	43	43	43	43	43						
9) South Pier (Optional)																					
Activity 1 - D Walling	112	775	-66	3	49			49	49	49	49	49	49	49	49						
10) Viewing Platform (Optional)																					
Activity 1 - D Walling	108	400	-60	3	51			51	51	51	51	51	51	51	51						
Predicted Noise Level of this Project, dB (A)								60	60	60	66	66	66	66	66						
Predicted Noise Level of Express Rail Link, dB(A)¹								67	62	62	66	60	58								
Predicted Noise Level of Road Works at West Kowloon, dB(A)²								60	60	60	60	60									
Predicted Noise Level of Road Improvement Works in West Kowloon Reclamation, dB(A)³												41	60	Min	Max						
Overall Cumulative Noise Level, dB(A)								68	66	66	70	68	68	66	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					
1) Zone 1																		
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					
2) Zone 2																		
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		
3) Zone 3																		
Activity 1 - D Walling	107	795	-66	3	44											44		
4) Park Construction - Zone A																		
ICC Footbridge	106	744	-65	3	43			43	43	43	43	43	43	43	43	43		
6) East Concrete Batching Plant (Operation)																		
Barging Point (BP)	109	68	-45	3	67								67	67	67			
7) Barging Point (BP)																		
BP4	110	650	-64	3	49			49	49	49	49	49	49	49	49			
BP5	110	695	-65	3	48			48	48	48	48	48	48	48	48			
BP6	110	900	-67	3	46			46	46	46	46	46	46	46	46			
BP7	110	985	-68	3	45			45	45	45	45	45	45	45	45			
8) West Pier (Optional)																		
South Pier (Optional)	112	1350	-71	3	44			44	44	44	44	44	44	44	44			
9) South Pier (Optional)																		
Viewing Platform (Optional)	108	291	-57	3	50			50	50	50	50	50	50	50	50			
10) Viewing Platform (Optional)																		
Predicted Noise Level of this Project, dB (A)								64	64	64	72	71	71	64	64	71	72	
Predicted Noise Level of Express Rail Link, dB(A)¹								74	72	72	73	70	69					
Predicted Noise Level of Road Works at West Kowloon, dB(A)²								60	60	60	60	60	60					
Predicted Noise Level of Road Improvement Works in West Kowloon Reclamation, dB(A)³													41	62	Min	Max	Min	Max
Overall Cumulative Noise Level, dB(A)								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						
1) Zone 1																	
Activity 1 - D Walling	102	676	-65	3	40		40	40	40								
Activity 2 - Bored Piling	108	675	-65	3	46				46	46	46						
2) Zone 2																	
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						
3) Zone 3																	
Activity 1 - D Walling	107	347	-59	3	52						52						
4) Park Construction - Zone A																	
	109	675	-65	3	47		47	47	47	47	47						
5) ICC Footbridge																	
	106	272	-57	3	52		52	52	52	52	52						
6) East Concrete Batching Plant (Operation)																	
	109	703	-65	3	47						47						
7) Barging Point (BP)																	
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						
8) West Pier (Optional)																	
	112	826	-66	3	48		48	48	48	48	48						
9) South Pier (Optional)																	
	112	476	-62	3	53		53	53	53	53	53						
10) Viewing Platform (Optional)																	
	108	561	-63	3	48		48	48	48	48	48						
Predicted Noise Level of this Project, dB (A)							60	60	60	61	61	64	60	60	61	64	
Predicted Noise Level of Express Rail Link, dB(A)¹																	
Predicted Noise Level of Road Works at West Kowloon, dB(A)²																	
Predicted Noise Level of Road Improvement Works in West Kowloon Reclamation, dB(A)³												72	72	Min	Max	Min	Max
Overall Cumulative Noise Level, dB(A)							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	Zone 1								
	Activity 3 - Excavation								
	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
	Activity 4 - Basement and Underpass								
	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	
Activity 5 - Superstructure									
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	Zone 2 (for area with less plant) [3]								
	Activity 1 - D Walling								
	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
	Activity 2 - Bored Piling								
	Group 1								
	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	
Group 2									
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	
Activity 3 - Excavation									
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	
Activity 4 - Basement and Underpass									
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	Zone 2 (for area with more plant) [3]								
	Activity 1 - D Walling								
	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)
Activity 2 - Bored Piling								
Group 1								
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
Group 2								
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
Activity 3 - Excavation								
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
Activity 4 - Basement and Underpass								
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
Zone 3								
Activity 1 - D Walling								
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
Activity 2 - Bored Piling								
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)								115
Zone 4 - Park Construction - Zone A								
Activity 1 - Park Construction [4]								
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
Activity 2 - Superstructure [4]								
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

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	ICC Footbridge / Flyover								
	Group 1								
	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	
	Group 2								
	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	
	7	East Concrete Batching Plant (Operation)							
		Group 1							
		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		
Group 2									
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		Barging Points							
		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	
9/10	Pier Construction (Optional)								
	Group 1								
	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	
	Group 2								
	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)							112	
	Group 3								
	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)							112	
Maximum SWL, dB (A)							112		
11	Viewing Platform (Optional)								
	Group 1								
	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	
	Group 2								
	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

[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: 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		
1) Zone 1																			
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		
2) Zone 2																			
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		
3) Zone 3																			
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		
4) Park Construction - Zone A																			
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		
8) Barqing Point (BP)																			
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	
Predicted Noise Level of this Project, dB (A)																Min	Max	Min	Max
Predicted Noise Level of Express Rail Link, dB(A)¹																69	69	70	71
Predicted Noise Level of Road Works at West Kowloon, dB(A)²																63	63	63	
Overall Cumulative Noise Level, dB(A)																68	67	67	67
																2014		2015	
																Min	Max	Min	Max
																72	72	71	72

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

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

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

Mitigated Construction Noise Impact

NSR: WOB (Wai On Building)

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB (A)	Facade Correction,	Calculated SPL, dB(A)	2014												2015			
						4	5	6	7	8	9	10	11	12	1	2	3	4			
1) Zone 1																					
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				
2) Zone 2																					
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				
3) Zone 3																					
Activity 1 - D Walling																					
Activity 2 - Bored Piling	115	905	-67	3	50									50	50	50	50				
4) Park Construction - Zone A																					
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				
8) Barqing Point (BP)																					
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				
Predicted Noise Level of this Project, dB (A)						65	65	67	67	67	67	66	67	66	66	66	66				
Predicted Noise Level of Express Rail Link, dB(A)¹						58	58	58	58	58	53	53	53	53	49	49	49				
Predicted Noise Level of Road Works at West Kowloon, dB(A)²						64	63	63	63	63	63										
Predicted Noise Level of Road Improvement Works in West Kowloon Reclamation, dB(A)³						63	66	63	70	69	69	69	70	63	63	46	46				
Overall Cumulative Noise Level, dB(A)						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			
1) Zone 1																					
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				
2) Zone 2																					
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				
3) Zone 3																					
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				
4) Park Construction - Zone A																					
Activity 1 - D Walling	109	1042	-68	3	44	44	44	44	44	44	44	44	44	44	44	44	44				
5) ICC Footbridge																					
Activity 1 - D Walling	106	827	-66	3	42	42	42	42	42	42	42	42	42	42	42	42	42				
6) Flyover																					
Activity 1 - D Walling	106	914	-67	3	41					41	41	41	41	41	41	41	41				
7) East Concrete Batching Plant (Operation)																					
Activity 1 - D Walling	109	158	-52	3	60	60	60	60	60	60	60	60	60	60	60	60	60				
8) Barqing Point (BP)																					
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				
9) West Pier (Optional)																					
Activity 1 - D Walling	112	1451	-71	3	44	44	44	44	44	44	44	44	44	44	44	44	44				
10) South Pier (Optional)																					
Activity 1 - D Walling	112	786	-66	3	50	50	50	50	50	50	50	50	50	50	50	50	50				
11) Viewing Platform (Optional)																					
Activity 1 - D Walling	108	422	-61	3	51	51	51	51	51	51	51	51	51	51	51	51	51				
Predicted Noise Level of this Project, dB (A)																					
Predicted Noise Level of Express Rail Link, dB(A)¹																					
Predicted Noise Level of Road Works at West Kowloon, dB(A)²																					
Predicted Noise Level of Road Improvement Works in West Kowloon Reclamation, dB(A)³																					
Overall Cumulative Noise Level, dB(A)																					
																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																																																																																																																																									
1) Zone 1																																																																																																																																																											
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																																																																																																																																										
2) Zone 2																																																																																																																																																											
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																																																																																																																																										
Zone 2.2	105	527	-62	3	46									46	46	46	46																																																																																																																																										
Zone 2.3	106	367	-59	3	49									49	49	49	49																																																																																																																																										
Zone 2.4	106	214	-55	3	54									54	54	54	54																																																																																																																																										
Zone 2.5	106	214	-55	3	54									54	54	54	54																																																																																																																																										
Zone 2.6	106	377	-60	3	49									49	49	49	49																																																																																																																																										
Zone 2.7	106	547	-63	3	46									46	46	46	46																																																																																																																																										
Zone 2.8	105	736	-65	3	43									43	43	43	43																																																																																																																																										
3) Zone 3																																																																																																																																																											
Activity 1 - D Walling																																																																																																																																																											
Activity 2 - Bored Piling	115	901	-67	3	51							51	51	51	51	51	51																																																																																																																																										
4) Park Construction - Zone A																																																																																																																																																											
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																																																																																																																																										
8) Barqing Point (BP)																																																																																																																																																											
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)¹</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)²</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)³</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) ¹																60	60	60	60	Predicted Noise Level of Road Works at West Kowloon, dB(A) ²																60	59	59	59	Predicted Noise Level of Road Improvement Works in West Kowloon Reclamation, dB(A) ³																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) ¹																60	60	60	60																																																																																																																																								
Predicted Noise Level of Road Works at West Kowloon, dB(A) ²																60	59	59	59																																																																																																																																								
Predicted Noise Level of Road Improvement Works in West Kowloon Reclamation, dB(A) ³																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																																																																																																																																									
1) Zone 1																																																																																																																																																											
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																																																																																																																																										
2) Zone 2																																																																																																																																																											
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																																																																																																																																										
3) Zone 3																																																																																																																																																											
Activity 1 - D Walling																																																																																																																																																											
Activity 2 - Bored Piling	115	900	-67	3	51								51	51	51	51	51																																																																																																																																										
4) Park Construction - Zone A																																																																																																																																																											
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	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																																																																																																																																										
8) Barqing Point (BP)																																																																																																																																																											
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																																																																																																																																										
9) West Pier (Optional)																																																																																																																																																											
10) South Pier (Optional)	112	1455	-71	3	44	44	44	44	44	44	44	44	44	44	44	44	44																																																																																																																																										
10) South Pier (Optional)																																																																																																																																																											
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 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;">67</td> <td style="text-align: center;">67</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)¹</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)²</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)³</td> <td style="text-align: center;">62</td> <td style="text-align: center;">65</td> <td style="text-align: center;">62</td> <td style="text-align: center;">69</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;">70</td> <td style="text-align: center;">70</td> <td style="text-align: center;">72</td> </tr> </table>																																		2014	2015																	Min	Max	Min	Max	Predicted Noise Level of this Project, dB (A)																67	67	68	68	Predicted Noise Level of Express Rail Link, dB(A) ¹																60	60	60	60	Predicted Noise Level of Road Works at West Kowloon, dB(A) ²																60	59	59	59	Predicted Noise Level of Road Improvement Works in West Kowloon Reclamation, dB(A) ³																62	65	62	69	Overall Cumulative Noise Level, dB(A)																69	70	70	72
																2014	2015																																																																																																																																										
																Min	Max	Min	Max																																																																																																																																								
Predicted Noise Level of this Project, dB (A)																67	67	68	68																																																																																																																																								
Predicted Noise Level of Express Rail Link, dB(A) ¹																60	60	60	60																																																																																																																																								
Predicted Noise Level of Road Works at West Kowloon, dB(A) ²																60	59	59	59																																																																																																																																								
Predicted Noise Level of Road Improvement Works in West Kowloon Reclamation, dB(A) ³																62	65	62	69																																																																																																																																								
Overall Cumulative Noise Level, dB(A)																69	70	70	72																																																																																																																																								

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	4																																																																																																																																																																																																										
1) Zone 1																																																																																																																																																																																																																												
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																																																																																																																																																																																																											
2) Zone 2																																																																																																																																																																																																																												
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																																																																																																																																																																																																											
3) Zone 3																																																																																																																																																																																																																												
Activity 1 - D Walling																																																																																																																																																																																																																												
Activity 2 - Bored Piling	115	905	-67	3	43	43	43	43	43	43	43	43	43																																																																																																																																																																																																															
4) Park Construction - Zone A																																																																																																																																																																																																																												
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																																																																																																																																																																																																											
8) Barqing Point (BP)																																																																																																																																																																																																																												
BP4	110	745	-65	3	47	47	47	47	47	47	47	47	47	47	47	47	47																																																																																																																																																																																																											
BP5	110	795	-66	3	47	47	47	47	47	47	47	47	47	47	47	47	47																																																																																																																																																																																																											
BP6	110	993	-68	3	45	45	45	45	45	45	45	45	45	45	45	45	45																																																																																																																																																																																																											
BP7	110	1080	-69	3	44	44	44	44	44	44	44	44	44	44	44	44	44																																																																																																																																																																																																											
9) West Pier (Optional)	112	1455	-71	3	44	44	44	44	44	44	44	44	44	44	44	44	44																																																																																																																																																																																																											
10) South Pier (Optional)	112	775	-66	3	50	50	50	50	50	50	50	50	50	50	50	50	50																																																																																																																																																																																																											
11) Viewing Platform (Optional)	108	400	-60	3	51	51	51	51	51	51	51	51	51	51	51	51	51																																																																																																																																																																																																											
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td colspan="16"></td> <td>2014</td><td>2015</td> </tr> <tr> <td colspan="16"></td> <td>Min</td><td>Max</td><td>Min</td><td>Max</td> </tr> <tr> <td colspan="16">Predicted Noise Level of this Project, dB (A)</td> <td>66</td><td>66</td><td>68</td><td>68</td><td>68</td><td>67</td><td>67</td><td>68</td><td>66</td><td>66</td><td>66</td><td>66</td><td>66</td><td>66</td><td>66</td><td>66</td><td>66</td> </tr> <tr> <td colspan="16">Predicted Noise Level of Express Rail Link, dB(A)¹</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">Predicted Noise Level of Road Works at West Kowloon, dB(A)²</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">Predicted Noise Level of Road Improvement Works in West Kowloon Reclamation, dB(A)³</td> <td>60</td><td>63</td><td>60</td><td>66</td><td>65</td><td>65</td><td>65</td><td>66</td><td>60</td><td>60</td><td>42</td><td>42</td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td colspan="16">Overall Cumulative Noise Level, dB(A)</td> <td>69</td><td>69</td><td>69</td><td>71</td><td>70</td><td>70</td><td>69</td><td>70</td><td>67</td><td>67</td><td>66</td><td>66</td><td>67</td><td>71</td><td>66</td><td>67</td><td></td> </tr> </table>																																		2014	2015																	Min	Max	Min	Max	Predicted Noise Level of this Project, dB (A)																66	66	68	68	68	67	67	68	66	66	66	66	66	66	66	66	66	Predicted Noise Level of Express Rail Link, dB(A) ¹																60	60	60	60	60	60	58	58	55	55								Predicted Noise Level of Road Works at West Kowloon, dB(A) ²																60	59	59	59	59	59												Predicted Noise Level of Road Improvement Works in West Kowloon Reclamation, dB(A) ³																60	63	60	66	65	65	65	66	60	60	42	42						Overall Cumulative Noise Level, dB(A)																69	69	69	71	70	70	69	70	67	67	66	66	67	71	66	67	
																2014	2015																																																																																																																																																																																																											
																Min	Max	Min	Max																																																																																																																																																																																																									
Predicted Noise Level of this Project, dB (A)																66	66	68	68	68	67	67	68	66	66	66	66	66	66	66	66	66																																																																																																																																																																																												
Predicted Noise Level of Express Rail Link, dB(A) ¹																60	60	60	60	60	60	58	58	55	55																																																																																																																																																																																																			
Predicted Noise Level of Road Works at West Kowloon, dB(A) ²																60	59	59	59	59	59																																																																																																																																																																																																							
Predicted Noise Level of Road Improvement Works in West Kowloon Reclamation, dB(A) ³																60	63	60	66	65	65	65	66	60	60	42	42																																																																																																																																																																																																	
Overall Cumulative Noise Level, dB(A)																69	69	69	71	70	70	69	70	67	67	66	66	67	71	66	67																																																																																																																																																																																													

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

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

Mitigated Construction Noise Impact

NSR: FQ (Fire Services Department Staff Quarter)

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB (A)	Facade Correction,	Calculated SPL, dB(A)	2014												2015																																																																																									
						4	5	6	7	8	9	10	11	12	1	2	3	4																																																																																									
1) Zone 1																																																																																																											
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																																																																																										
2) Zone 2																																																																																																											
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																																																																																										
3) Zone 3																																																																																																											
Activity 1 - D Walling																																																																																																											
Activity 2 - Bored Piling	115	795	-66	3	52					52	52	52	52	52	52	52	52																																																																																										
4) Park Construction - Zone A																																																																																																											
5) ICC Footbridge	106	744	-65	3	43	43	43	43	43	43	43	43	43	43	43	43	43																																																																																										
6) Flyover	106	828	-66	3	42					42	42	42	42	42	42	42	42																																																																																										
7) East Concrete Batching Plant (Operation)	109	68	-45	3	67	67	67	67	67	67	67	67	67	67	67	67	67																																																																																										
8) Barqing Point (BP)																																																																																																											
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																																																																																										
9) West Pier (Optional)	112	1350	-71	3	45	45	45	45	45	45	45	45	45	45	45	45	45																																																																																										
10) South Pier (Optional)	112	680	-65	3	51	51	51	51	51	51	51	51	51	51	51	51	51																																																																																										
11) Viewing Platform (Optional)	108	291	-57	3	54	54	54	54	54	54	54	54	54	54	54	54	54																																																																																										
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td colspan="16" style="text-align: center;">Predicted Noise Level of this Project, dB (A)</td> <td>2014</td><td>2015</td> </tr> <tr> <td colspan="16" style="text-align: center;">Predicted Noise Level of Express Rail Link, dB(A)¹</td> <td>72</td><td>71</td> </tr> <tr> <td colspan="16" style="text-align: center;">Predicted Noise Level of Road Works at West Kowloon, dB(A)²</td> <td>69</td><td>68</td> </tr> <tr> <td colspan="16" style="text-align: center;">Predicted Noise Level of Road Improvement Works in West Kowloon Reclamation, dB(A)³</td> <td>62</td><td>62</td> </tr> <tr> <td colspan="16" style="text-align: center;">Overall Cumulative Noise Level, dB(A)</td> <td>74</td><td>72</td> </tr> </table>																		Predicted Noise Level of this Project, dB (A)																2014	2015	Predicted Noise Level of Express Rail Link, dB(A)¹																72	71	Predicted Noise Level of Road Works at West Kowloon, dB(A)²																69	68	Predicted Noise Level of Road Improvement Works in West Kowloon Reclamation, dB(A)³																62	62	Overall Cumulative Noise Level, dB(A)																74	72
Predicted Noise Level of this Project, dB (A)																2014	2015																																																																																										
Predicted Noise Level of Express Rail Link, dB(A)¹																72	71																																																																																										
Predicted Noise Level of Road Works at West Kowloon, dB(A)²																69	68																																																																																										
Predicted Noise Level of Road Improvement Works in West Kowloon Reclamation, dB(A)³																62	62																																																																																										
Overall Cumulative Noise Level, dB(A)																74	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				
1) Zone 1																					
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		
2) Zone 2																					
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		
3) Zone 3																					
Activity 1 - D Walling																					
Activity 2 - Bored Piling	115	347	-59	3	59	52	52	52	52	52	52	52	52	52	59	59	59	59	59		
4) Park Construction - Zone A																					
5) ICC Footbridge	106	272	-57	3	52	52	52	52	52	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		
8) Barqing Point (BP)																					
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		
Predicted Noise Level of this Project, dB (A)						63	63	63	63	65	65	64	65	64	64	64	64	64	64		
Predicted Noise Level of Express Rail Link, dB(A)¹																					
Predicted Noise Level of Road Works at West Kowloon, dB(A)²																					
Predicted Noise Level of Road Improvement Works in West Kowloon Reclamation, dB(A)³						72	72	72	73	73	73	73	73	73	73	73	73	73	73	73	
Overall Cumulative Noise Level, dB(A)						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	Zone 1								
	Activity 5 - Superstructure								
	Group 1								
	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)	107
	Group 2								
	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)	102
								Maximum SWL, dB (A)	107
	2a	Zone 2 (for area with less plant) [3]							
		Activity 3 - Excavation							
		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	
Activity 4 - Basement and Underpass									
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)	105	
2b		Zone 2 (for area with more plant) [3]							
		Activity 3 - Excavation							
		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
	Activity 4 - Basement and Underpass								
	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)	105
	2c	Zone 2 (for superstructure only)							
Activity 5 - Superstructure									
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)	115	

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	Zone 3								
	Activity 3 - Excavation								
	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
	Activity 4 - Basement and Underpass								
	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
	Activity 5 - Superstructure								
	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	Park Construction - Zone A							
		Activity 1 - Park Construction							
		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	
Activity 2 - Superstructure									
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	Park Construction - Zone 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	ICC Footbridge / Flyover								
	Group 1								
	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
	Group 2								
	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	East Concrete Batching Plant (Operation)									
	Group 1									
		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	
		Group 2								
		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	
	9	Barging Points								
			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		
10	Modification of seawalls and construction of seawater outfalls									
		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		
11/12	Pier Construction (Optional)									
	Group 1									
		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	
		Group 2								
		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	
		Group 3								
		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	
	13	Viewing Platform (Optional)								
Group 1										
		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	
		Group 2								
		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

[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,	Calculated SPL, dB(A)	2015												2016		
						4	5	6	7	8	9	10	11	12	1	2	3			
1) Zone 1																				
Activity 5 - Superstructure	107	576	-63	3	47	47	47	47	47	47	47	47	47	47	47	47	47			
2) Zone 2																				
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			
3) Zone 3																				
Activity 3 - Excavation																				
Activity 4 - Basement and Underpass	111	227	-55	3	59									59	59	59	59			
Activity 5 - Superstructure	109	180	-53	3	59												59			
4) Park Construction - Zone A																				
Activity 5 - Superstructure	108	525	-62	3	49	49														
5) Park Construction - Zone B																				
Activity 5 - Superstructure	102	283	-57	3	48		48	48	48	48	48	48	48	48	48	48	48			
6) ICC Footbridge																				
Activity 5 - Superstructure	106	125	-50	3	59															
7) Flyover																				
Activity 5 - Superstructure	106	198	-54	3	55	55	55	55	55	55	55	55	55	55	55	55	55			
8) East Concrete Batching Plant (Operation)																				
Activity 5 - Superstructure	109	553	-63	3	49	49	49	49	49	49	49	49	49	49	49	49	49			
9) Barging Point (BP)																				
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			
10) Modification of seawalls / construction of seawater outfalls																				
Outfall of WKCD DCWS	112	297	-57	3	57				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	50					
11) West Pier (Optional)																				
Activity 5 - Superstructure	112	756	-66	3	50	50	50	50	50	50	50	50	50	50	50	50	50			
12) South Pier (Optional)																				
Activity 5 - Superstructure	112	327	-58	3	57	57	57	57	57	57	57	57	57	57	57	57	57			
13) Viewing Platform (Optional)																				
Activity 5 - Superstructure	108	412	-60	3	51	51	51	51	51	51	51	51	51	51	51	51	51			
Predicted Noise Level of this Project, dB (A)																				
Predicted Noise Level of Express Rail Link, dB(A)¹																				
Overall Cumulative Noise Level, dB(A)																				
															2015	2016	2015	2016		
															Min	Max	Min	Max		
															67	69	69	69		
															2015	2016	2015	2016		
															Min	Max	Min	Max		
															67	69	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) 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			
1) Zone 1																				
Activity 5 - Superstructure	107	99	-48	3	62	62	62	62	62	62	62	62	62	62	62	62	62			
2) Zone 2																				
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			
3) Zone 3																				
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			
4) Park Construction - Zone A																				
Activity 5 - Superstructure	108	1036	-68	3	43	43														
5) Park Construction - Zone B																				
Activity 5 - Superstructure	102	251	-56	3	49		49	49	49	49	49	49	49	49	49	49	49			
6) ICC Footbridge																				
Activity 5 - Superstructure	106	759	-66	3	43															
7) Flyover																				
Activity 5 - Superstructure	106	837	-66	3	42	42	42	42	42	42	42	42	42	42	42	42	42			
8) East Concrete Batching Plant (Operation)																				
Activity 5 - Superstructure	109	165	-52	3	59	59	59	59	59	59	59	59	59	59	59	59	59			
9) Barging Point (BP)																				
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			
10) Modification of seawalls / construction of seawater outfalls																				
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			
11) West Pier (Optional)																				
Activity 5 - Superstructure	117	1391	-71	3	50	50	50	50	50	50	50	50	50	50	50	50	50			
12) South Pier (Optional)																				
Activity 5 - Superstructure	117	771	-66	3	55	55	55	55	55	55	55	55	55	55	55	55	55			
13) Viewing Platform (Optional)																				
Activity 5 - Superstructure	115	447	-61	3	57	57	57	57	57	57	57	57	57	57	57	57	57			
Predicted Noise Level of this Project, dB (A)																				
Predicted Noise Level of Express Rail Link, dB(A)¹																				
Overall Cumulative Noise Level, dB(A)																				
															Min	Max	Min	Max		
															67	68	68	68		
															2015					
															2016					
															Min	Max	Min	Max		
															67	70	68	68		

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			
1) Zone 1																				
Activity 5 - Superstructure	107	100	-48	3	62	62	62	62	62	62	62	62	62	62	62	62	62			
2) Zone 2																				
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	59			
3) Zone 3																				
Activity 3 - Excavation																				
Activity 4 - Basement and Underpass	111	946	-68	3	47								47	47	47	47	47			
Activity 5 - Superstructure	109	876	-67	3	45												45			
4) Park Construction - Zone A																				
Activity 5 - Superstructure	108	1107	-69	3	42	42														
5) Park Construction - Zone B																				
Activity 5 - Superstructure	102	282	-57	3	48		48	48	48	48	48	48	48	48	48	48	48			
6) ICC Footbridge																				
Activity 5 - Superstructure	106	840	-66	3	42															
7) Flyover																				
Activity 5 - Superstructure	106	922	-67	3	41	41	41	41	41	41	41	41	41	41	41	41	41			
8) East Concrete Batching Plant (Operation)																				
Activity 5 - Superstructure	109	215	-55	3	57	57	57	57	57	57	57	57	57	57	57	57	57			
9) Barging Point (BP)																				
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			
10) Modification of seawalls / construction of seawater outfalls																				
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						
11) West Pier (Optional)																				
Activity 5 - Superstructure	112	1475	-71	3	44	44	44	44	44	44	44	44	44	44	44	44	44			
12) South Pier (Optional)																				
Activity 5 - Superstructure	112	845	-67	3	49	49	49	49	49	49	49	49	49	49	49	49	49			
13) Viewing Platform (Optional)																				
Activity 5 - Superstructure	108	508	-62	3	49	49	49	49	49	49	49	49	49	49	49	49	49			
Predicted Noise Level of this Project, dB (A)																				
Predicted Noise Level of Express Rail Link, dB(A)¹																				
Overall Cumulative Noise Level, dB(A)																				
															2015	2016				
															Min	Max	Min	Max		
															65	66	66	66		
															2016					
															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			
1) Zone 1																				
Activity 5 - Superstructure	107	74	-45	3	65	65	65	65	65	65	65	65	65	65	65	65	65			
2) Zone 2																				
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			
3) Zone 3																				
Activity 3 - Excavation																				
Activity 4 - Basement and Underpass	111	917	-67	3	47								47	47	47	47	47			
Activity 5 - Superstructure	109	855	-67	3	45												45			
4) Park Construction - Zone A																				
Activity 5 - Superstructure	108	1042	-68	3	43	43														
5) Park Construction - Zone B																				
Activity 5 - Superstructure	102	178	-53	3	52		52	52	52	52	52	52	52	52	52	52	52			
6) ICC Footbridge																				
Activity 5 - Superstructure	106	827	-66	3	42															
7) Flyover																				
Activity 5 - Superstructure	106	914	-67	3	41	41	41	41	41	41	41	41	41	41	41	41	41			
8) East Concrete Batching Plant (Operation)																				
Activity 5 - Superstructure	109	158	-52	3	60	60	60	60	60	60	60	60	60	60	60	60	60			
9) Barging Point (BP)																				
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			
10) Modification of seawalls / construction of seawater outfalls																				
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						
11) West Pier (Optional)																				
Activity 5 - Superstructure	112	1451	-71	3	44	44	44	44	44	44	44	44	44	44	44	44	44			
12) South Pier (Optional)																				
Activity 5 - Superstructure	112	786	-66	3	49	49	49	49	49	49	49	49	49	49	49	49	49			
13) Viewing Platform (Optional)																				
Activity 5 - Superstructure	108	422	-61	3	51	51	51	51	51	51	51	51	51	51	51	51	51			
															2015		2016			
Predicted Noise Level of this Project, dB (A)															Min	Max	Min	Max		
Predicted Noise Level of Express Rail Link, dB(A)¹															67	68	68	68		
															2015		2016			
															Min	Max	Min	Max		
Overall Cumulative Noise Level, dB(A)															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			
1) Zone 1																				
Activity 5 - Superstructure	107	78	-46	3	64	64	64	64	64	64	64	64	64	64	64	64	64			
2) Zone 2																				
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			
3) Zone 3																				
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			
4) Park Construction - Zone A																				
Activity 5 - Superstructure	108	1068	-69	3	43	43														
5) Park Construction - Zone B																				
Activity 5 - Superstructure	102	223	-55	3	50		50	50	50	50	50	50	50	50	50	50	50			
6) ICC Footbridge																				
Activity 5 - Superstructure	106	846	-67	3	42															
7) Flyover																				
Activity 5 - Superstructure	106	930	-67	3	41	41	41	41	41	41	41	41	41	41	41	41	41			
8) East Concrete Batching Plant (Operation)																				
Activity 5 - Superstructure	109	183	-53	3	58	58	58	58	58	58	58	58	58	58	58	58	58			
9) Barging Point (BP)																				
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			
10) Modification of seawalls / construction of seawater outfalls																				
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						
11) West Pier (Optional)																				
Activity 5 - Superstructure	112	1471	-71	3	44	44	44	44	44	44	44	44	44	44	44	44	44			
12) South Pier (Optional)																				
Activity 5 - Superstructure	112	816	-66	3	49	49	49	49	49	49	49	49	49	49	49	49	49			
13) Viewing Platform (Optional)																				
Activity 5 - Superstructure	108	462	-61	3	50	50	50	50	50	50	50	50	50	50	50	50	50			
Predicted Noise Level of this Project, dB (A)																				
Predicted Noise Level of Express Rail Link, dB(A)¹																				
Overall Cumulative Noise Level, dB(A)																				
															2015	2016				
															Min	Max	Min	Max		
															67	68	67	68		
															2015	2016				
															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			
1) Zone 1																				
Activity 5 - Superstructure	107	105	-48	3	62	62	62	62	62	62	62	62	62	62	62	62	62			
2) Zone 2																				
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			
3) Zone 3																				
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			
4) Park Construction - Zone A																				
Activity 5 - Superstructure	108	1046	-68	3	43	43														
5) Park Construction - Zone B																				
Activity 5 - Superstructure	102	150	-51	3	54		54	54	54	54	54	54	54	54	54	54	54			
6) ICC Footbridge																				
Activity 5 - Superstructure	106	843	-67	3	42															
7) Flyover																				
Activity 5 - Superstructure	106	927	-67	3	41	41	41	41	41	41	41	41	41	41	41	41	41			
8) East Concrete Batching Plant (Operation)																				
Activity 5 - Superstructure	109	160	-52	3	60	60	60	60	60	60	60	60	60	60	60	60	60			
9) Barging Point (BP)																				
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			
10) Modification of seawalls / construction of seawater outfalls																				
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						
11) West Pier (Optional)																				
Activity 5 - Superstructure	112	1455	-71	3	44	44	44	44	44	44	44	44	44	44	44	44	44			
12) South Pier (Optional)																				
Activity 5 - Superstructure	112	780	-66	3	49	49	49	49	49	49	49	49	49	49	49	49	49			
13) Viewing Platform (Optional)																				
Activity 5 - Superstructure	108	398	-60	3	51	51	51	51	51	51	51	51	51	51	51	51	51			
Predicted Noise Level of this Project, dB (A)																				
Predicted Noise Level of Express Rail Link, dB(A)¹																				
Overall Cumulative Noise Level, dB(A)																				
															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			
1) Zone 1																				
Activity 5 - Superstructure	107	120	-50	3	60	60	60	60	60	60	60	60	60	60	60	60	60			
2) Zone 2																				
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			
CCP	115	342	-59	3	59										59	59	59			
3) Zone 3																				
Activity 3 - Excavation																				
Activity 4 - Basement and Underpass	111	926	-67	3	47									47	47	47	47			
Activity 5 - Superstructure	109	866	-67	3	45												45			
4) Park Construction - Zone A																				
Activity 5 - Superstructure	108	1065	-69	3	43	43														
5) Park Construction - Zone B																				
Activity 5 - Superstructure	102	146	-51	3	54		54	54	54	54	54	54	54	54	54	54	54			
6) ICC Footbridge																				
Activity 5 - Superstructure	106	847	-67	3	42															
7) Flyover																				
Activity 5 - Superstructure	106	933	-67	3	41	41	41	41	41	41	41	41	41	41	41	41	41			
8) East Concrete Batching Plant (Operation)																				
Activity 5 - Superstructure	109	170	-53	3	59	59	59	59	59	59	59	59	59	59	59	59	59			
9) Barging Point (BP)																				
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			
10) Modification of seawalls / construction of seawater outfalls																				
Outfall of WKCD DCWS	112	750	-66	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						
11) West Pier (Optional)																				
Activity 5 - Superstructure	112	1455	-71	3	44	44	44	44	44	44	44	44	44	44	44	44	44			
12) South Pier (Optional)																				
Activity 5 - Superstructure	112	775	-66	3	49	49	49	49	49	49	49	49	49	49	49	49	49			
13) Viewing Platform (Optional)																				
Activity 5 - Superstructure	108	400	-60	3	51	51	51	51	51	51	51	51	51	51	51	51	51			
Predicted Noise Level of this Project, dB (A)																				
Predicted Noise Level of Express Rail Link, dB(A)¹																				
Overall Cumulative Noise Level, dB(A)																				
															2015	2016	2015	2016		
															Min	Max	Min	Max		
															65	67	66	67		
															2016					
															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			
1) Zone 1																				
Activity 5 - Superstructure	107	82	-46	3	64	64	64	64	64	64	64	64	64	64	64	64	64			
2) Zone 2																				
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			
3) Zone 3																				
Activity 3 - Excavation	106	824	-66	3	42	42	42	42	42	42	42									
Activity 4 - Basement and Underpass	111	824	-66	3	48							48	48	48	48	48	48			
Activity 5 - Superstructure	109	761	-66	3	46												46			
4) Park Construction - Zone A	108	996	-68	3	43	43														
5) Park Construction - Zone B	102	72	-45	3	60		60	60	60	60	60	60	60	60	60	60	60			
6) ICC Footbridge	106	744	-65	3	43															
7) Flyover	106	828	-66	3	42	42	42	42	42	42	42	42	42	42	42	42	42			
8) East Concrete Batching Plant (Operation)	109	65	-44	3	67	67	67	67	67	67	67	67	67	67	67	67	67			
9) Barging Point (BP)																				
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			
10) Modification of seawalls / construction of seawater outfalls																				
Outfall of WKCD DCWS	112	625	-64	3	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					
11) West Pier (Optional)	112	1350	-71	3	45	45	45	45	45	45	45	45	45	45	45	45	45			
12) South Pier (Optional)	112	680	-65	3	51	51	51	51	51	51	51	51	51	51	51	51	51			
13) Viewing Platform (Optional)	108	291	-57	3	54	54	54	54	54	54	54	54	54	54	54	54	54			
Predicted Noise Level of this Project, dB (A)																				
Predicted Noise Level of Express Rail Link, dB(A)¹																				
Overall Cumulative Noise Level, dB(A)																				
															2015	2016	2015	2016		
															Min	Max	Min	Max		
															71	71	71	71		
															2015	2016	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			
1) Zone 1																				
Activity 5 - Superstructure	107	681	-65	3	45	45	45	45	45	45	45	45	45	45	45	45	45			
2) Zone 2																				
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			
3) Zone 3																				
Activity 3 - Excavation																				
Activity 4 - Basement and Underpass	111	376	-59	3	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			
9) Barging Point (BP)																				
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			
10) Modification of seawalls / construction of seawater outfalls																				
Outfall of WKCD DCWS	112	561	-63	3	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					
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			
Predicted Noise Level of this Project, dB (A)						62	62	62	62	62	63	63	64	64	64	64	64			
Predicted Noise Level of Express Rail Link, dB(A)¹																				
Predicted Noise Level of Road Improvement Works in West Kowloon Reclamation, dB(A)³						73	73	70	67	56	56									
Overall Cumulative Noise Level, dB(A)						73	73	71	68	63	64	63	64	64	64	64	64	64		
															2015		2016			
															Min	Max	Min	Max		
															2015		2016			
															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	Zone 1								
	Activity 5 - Superstructure								
	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	Zone 2 (for area with less plant) [3]							
		Activity 4 - Basement and Underpass							
		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	
Activity 5 - Superstructure									
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	Zone 2 (for area with more plant) [3]								
	Activity 4 - Basement and Underpass								
	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
	Activity 5 - Superstructure								
	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	Zone 3								
	Activity 4 - Basement and Underpass								
	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)
Activity 5 - Superstructure								
	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 Zone 4								
Activity 1 - D Walling								
	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)	109
Activity 2 - Bored Piling								
	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
Activity 3 - Excavation								
	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
Activity 4 - Basement								
	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
5 Park Construction - Zone 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 Flyover								
Group 1								
	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
Group 2								
	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)	
7/9	East / West Concrete Batching Plant (Operation)								
	Group 1								
	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
	Group 2								
	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	East Concrete Batching Plant (Demolition)							
		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	West Concrete Batching Plant (Construction)								
	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	Barging Points								
	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	Pier Construction (Optional)								
	Group 1								
	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
	Group 2								
	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
	Group 3								
	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	Viewing Platform (Optional)							
Group 1									
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	
Group 2									
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

[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,	Calculated SPL,	2016												2017		
						4	5	6	7	8	9	10	11	12	1	2	3			
1) Zone 1																				
Activity 5 - Superstructure	108	576	-63	3	48	48														
2) Zone 2																				
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			
Zone 2.2	106	169	-53	3	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			
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	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			
Zone 2.8	106	208	-54	3	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			
Zone 2.2	106	169	-53	3	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			
Zone 2.4	106	446	-61	3	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			
Zone 2.6	106	342	-59	3	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			
Zone 2.8	106	208	-54	3	55	55	55	55	55	55	55	55	55	55	55	55	55			
3) Zone 3																				
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			
4) Zone 4																				
Activity 1 - D Walling																				
Activity 2 - Bored Piling	119	481	-62	3	60					60	60	60	60	60	60	60	60			
Activity 3 - Excavation	118	564	-63	3	58						58	58	58	58	58	58	58			
Activity 4 - Basement	114	481	-62	3	56										56	56	56			
5) Park Construction - Zone B																				
6) Flyover	106	198	-54	3	48	48	48	48	48	48	48	48	48	48	48	48	48			
7) East Concrete Batching Plant (Operation)	109	554	-63	3	49	49	49	49	49	49	49	49	49	49						
8) East Concrete Batching Plant (Demolition)	97	554	-63	3	37											37	37			
9) West Concrete Batching Plant (Construction)	107	419	-60	3	50				50	50	50	50	50	50						
10) West Concrete Batching Plant (Operation)	109	419	-60	3	51											51	51			
11) Barging Point (BP)																				
BP4	110	302	-58	3	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						
BP6	110	461	-61	3	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						
12) West Pier (Optional)	112	756	-66	3	50	50	50	50	50	50	50	50	50	50	50	50	50			
13) South Pier (Optional)	112	327	-58	3	57	57	57	57	57	57	57	57	57	57	57	57	57			
14) Viewing Platform (Optional)	108	412	-60	3	51	51	51	51	51	51	51	51	51	51	51	51	51			
Predicted Noise Level of the Project, dB(A)						69	69	69	69	69	70	70	70	70	69	69	69			
															2016		2017			
															Min	Max	Min	Max		
															69	70	69	69		

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			
1) Zone 1																				
Activity 5 - Superstructure	108	99	-48	3	63	63														
2) Zone 2																				
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		
3) Zone 3																				
Activity 4 - Basement and Underpass																				
Activity 5 - Superstructure	109	821	-66	3	45	45	45	45	45	45	45	45	45	45	45	45	45	45		
4) Zone 4																				
Activity 1 - D Walling	109	1121	-69	3	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		
Activity 3 - Excavation	118	1206	-70	3	51						51	51	51	51	51	51	51	51		
Activity 4 - Basement	114	1121	-69	3	48											48	48	48		
5) Park Construction - Zone B	102	251	-56	3	49	49	49	49	49	49	49	49	49	49	49	49	49	49		
6) Flyover	106	837	-66	3	42	42	42	42	42	42	42	42	42	42	42	42	42	42		
7) East Concrete Batching Plant (Operation)	109	165	-52	3	59	59	59	59	59	59	59	59	59	59	59					
8) East Concrete Batching Plant (Demolition)	97	165	-52	3	48												48	48		
9) West Concrete Batching Plant (Construction)	107	1056	-68	3	42				42	42	42	42	42	42	42					
10) West Concrete Batching Plant (Operation)	109	1056	-68	3	43												43	43		
11) Barging Point (BP)																				
BP4	110	731	-65	3	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					
BP6	110	986	-68	3	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					
12) West Pier (Optional)	112	1391	-71	3	44	44	44	44	44	44	44	44	44	44	44	44	44	44		
13) South Pier (Optional)	112	771	-66	3	49	49	49	49	49	49	49	49	49	49	49	49	49	49		
14) Viewing Platform (Optional)	108	447	-61	3	50	50	50	50	50	50	50	50	50	50	50	50	50	50		
Predicted Noise Level of the Project, dB(A)						68	66	66	66	66	66	66	66	66	66	65	65	65		
															2016		2017			
															Min	Max	Min	Max		
															65	68	65	65		

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			
1) Zone 1																				
Activity 5 - Superstructure	108	100	-48	3	63	63														
2) Zone 2																				
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	106	370	-59	3	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			
Zone 2.5	106	260	-56	3	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			
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																				
Zone 2.1	106	695	-65	3	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			
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	106	570	-63	3	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			
3) Zone 3																				
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			
4) Zone 4																				
Activity 1 - D Walling																				
Activity 2 - Bored Piling	119	1206	-70	3	52					52	52	52	52	52	52	52	52			
Activity 3 - Excavation	118	1296	-70	3	51									51	51	51	51			
Activity 4 - Basement	114	1206	-70	3	48											48	48			
5) Park Construction - Zone B																				
6) Flyover	106	922	-67	3	41	41	41	41	41	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			
8) East Concrete Batching Plant (Demolition)	97	215	-55	3	45											45	45			
9) West Concrete Batching Plant (Construction)	107	1140	-69	3	41				41	41	41	41	41	41	41	41	41			
10) West Concrete Batching Plant (Operation)	109	1140	-69	3	43											43	43			
11) Barging Point (BP)																				
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			
12) West Pier (Optional)	112	1475	-71	3	44	44	44	44	44	44	44	44	44	44	44	44	44			
13) South Pier (Optional)	112	845	-67	3	49	49	49	49	49	49	49	49	49	49	49	49	49			
14) Viewing Platform (Optional)	108	508	-62	3	49	49	49	49	49	49	49	49	49	49	49	49	49			
Predicted Noise Level of the Project, dB(A)						66	64	64	64	64	64	64	64	64	64	63	63	63		
															2016		2017			
															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			
1) Zone 1																				
Activity 5 - Superstructure	108	78	-46	3	65	65														
2) Zone 2																				
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	43	43	
Zone 2.2	105	527	-62	3	46	46	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	49	49	
Zone 2.4	106	214	-55	3	54	54	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	54	54	
Zone 2.6	106	377	-60	3	49	49	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	45	45	
Zone 2.8	105	736	-65	3	43	43	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	44	44	
Zone 2.2	106	527	-62	3	46	46	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	50	50	
Zone 2.4	106	214	-55	3	54	54	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	54	54	
Zone 2.6	106	377	-60	3	49	49	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	46	46	
Zone 2.8	106	736	-65	3	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	
3) Zone 3																				
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	45	45	
4) Zone 4																				
Activity 1 - D Walling	109	1208	-70	3	43		43	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	52	52	
Activity 3 - Excavation	118	1292	-70	3	51						51	51	51	51	51	51	51	51	51	
Activity 4 - Basement	114	1208	-70	3	48											48	48	48	48	
5) Park Construction - Zone B																				
6) Flyover	106	930	-67	3	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	
7) East Concrete Batching Plant (Operation)	109	183	-53	3	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	
8) East Concrete Batching Plant (Demolition)	97	183	-53	3	47												47	47	47	
9) West Concrete Batching Plant (Construction)	107	1151	-69	3	41				41	41	41	41	41	41	41	41	41	41	41	
10) West Concrete Batching Plant (Operation)	109	1151	-69	3	42												42	42	42	
11) Barging Point (BP)																				
BP4	110	781	-66	3	47	47	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	46	46	
BP6	110	1036	-68	3	44	44	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	44	44	
12) West Pier (Optional)	112	1471	-71	3	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	
13) South Pier (Optional)	112	816	-66	3	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	
14) Viewing Platform (Optional)	108	462	-61	3	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	
Predicted Noise Level of the Project, dB(A)						68	65	65	65	65	65	65	65	65	65	64	64	64	64	64
															2016		2017			
															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: 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,	2016												2017		
						4	5	6	7	8	9	10	11	12	1	2	3			
1) Zone 1																				
Activity 5 - Superstructure	108	105	-48	3	63	63														
2) Zone 2																				
Activity 4 - Basement and Underpass																				
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	54	54	54	54	54	54	54	54	54	54	54	54	54			
Zone 2.5	106	175	-53	3	56	56	56	56	56	56	56	56	56	56	56	56	56			
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			
Activity 5 - Superstructure																				
Zone 2.1	106	685	-65	3	44	44	44	44	44	44	44	44	44	44	44	44	44			
Zone 2.2	106	505	-62	3	47	47	47	47	47	47	47	47	47	47	47	47	47			
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	175	-53	3	56	56	56	56	56	56	56	56	56	56	56	56	56			
Zone 2.6	106	350	-59	3	50	50	50	50	50	50	50	50	50	50	50	50	50			
Zone 2.7	106	515	-62	3	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			
3) Zone 3																				
Activity 4 - Basement and Underpass																				
Activity 5 - Superstructure	109	905	-67	3	45	45	45	45	45	45	45	45	45	45	45	45	45			
4) Zone 4																				
Activity 1 - D Walling	109	1198	-70	3	43		43	43	43	43	43	43	43	43	43	43	43			
Activity 2 - Bored Piling	119	1198	-70	3	53					53	53	53	53	53	53	53	53			
Activity 3 - Excavation	118	1279	-70	3	51						51	51	51	51	51	51	51			
Activity 4 - Basement	114	1198	-70	3	48										48	48	48			
5) Park Construction - Zone B																				
6) Flyover	106	927	-67	3	41	41	41	41	41	41	41	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			
8) East Concrete Batching Plant (Demolition)	97	160	-52	3	48											48	48			
9) West Concrete Batching Plant (Construction)	107	1150	-69	3	41				41	41	41	41	41	41	41	41	41			
10) West Concrete Batching Plant (Operation)	109	1150	-69	3	42											42	42			
11) Barging Point (BP)																				
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			
12) West Pier (Optional)	112	1455	-71	3	44	44	44	44	44	44	44	44	44	44	44	44	44			
13) South Pier (Optional)	112	780	-66	3	49	49	49	49	49	49	49	49	49	49	49	49	49			
14) Viewing Platform (Optional)	108	398	-60	3	51	51	51	51	51	51	51	51	51	51	51	51	51			
Predicted Noise Level of the Project, dB(A)						67	66	66	66	66	66	66	66	66	65	65	65			
															2016		2017			
															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.

