

| Item | PME | TM or other reference | SWL, dB(A) | No. of PME | % on time | Total SWL, dB(A) | |
|--|--|--|------------|------------|-----------|------------------|------------|
| 1 | Zone 1 | | | | | | |
| | Activity 5 - Superstructure | | | | | | |
| | Group 1 | | | | | | |
| | | Crane, tower (electric) | CNP 049 | 95 | 1 | 50% | 92 |
| | | Crane, mobile/ barge mounted (diesel) | CNP 048 | 112 | 1 | 50% | 109 |
| | | Crane Lorry 5.5 tonne < gross vehicle weight =< 38 tonne | [1] | 105 | 1 | 50% | 102 |
| | | Concrete pump, stationary/ lorry mounted | CNP 047 | 109 | 1 | 50% | 106 |
| | | Poker, vibratory, hand-held (electric) | [1] | 102 | 3 | 50% | 104 |
| | | Bar bender and cutter (electric) | CNP 021 | 90 | 1 | 50% | 87 |
| | | Generator, super silenced, 70 dB(A) at 7 m | CNP 103 | 95 | 2 | 100% | 98 |
| | | Air compressor, air flow > 30m3/min | CNP 003 | 104 | 1 | 100% | 104 |
| | | Concrete lorry mixer | CNP 044 | 109 | 2 | 50% | 109 |
| | | Drill/grinder, hand-held (electric) | CNP 065 | 98 | 5 | 30% | 100 |
| | | Water pump (electric) | CNP 281 | 88 | 2 | 30% | 86 |
| | | Excavator/ loader, wheeled/ tracked | CNP 081 | 112 | 2 | 30% | 110 |
| | | Fork Lift Truck | [2] | 104 | 2 | 30% | 102 |
| | | Hoist, passenger/ material (electric) | CNP 122 | 95 | 2 | 30% | 93 |
| | | Total SWL, dB (A) | | | | | 116 |
| | | Group 2 | | | | | |
| | | Crane, mobile/ barge mounted (diesel) | CNP 048 | 112 | 1 | 50% | 109 |
| | | Crane Lorry 5.5 tonne < gross vehicle weight =< 38 tonne | [1] | 105 | 1 | 50% | 102 |
| | | Concrete pump, stationary/ lorry mounted | CNP 047 | 109 | 1 | 50% | 106 |
| | | Poker, vibratory, hand-held (electric) | [1] | 102 | 2 | 50% | 102 |
| | | Bar bender and cutter (electric) | CNP 021 | 90 | 1 | 50% | 87 |
| | | Generator, super silenced, 70 dB(A) at 7 m | CNP 103 | 95 | 1 | 100% | 95 |
| | | Water pump (electric) | CNP 281 | 88 | 1 | 30% | 83 |
| | | Excavator/ loader, wheeled/ tracked | CNP 081 | 112 | 1 | 30% | 107 |
| | | Fork Lift Truck | [2] | 104 | 1 | 30% | 99 |
| | | Hoist, passenger/ material (electric) | CNP 122 | 95 | 1 | 30% | 90 |
| | | Total SWL, dB (A) | | | | | 113 |
| | | Maximum SWL, dB (A) | | | | | 116 |
| | 2a | Zone 2 (for area with less plant) [3] | | | | | |
| | | Activity 3 - Excavation | | | | | |
| | | Crane, mobile/ barge mounted (diesel) | CNP 048 | 112 | 1 | 60% | 110 |
| | | Air compressor, air flow > 30m3/min | CNP 003 | 104 | 1 | 100% | 104 |
| | | Excavator/ loader, wheeled/ tracked | CNP 081 | 112 | 1 | 60% | 110 |
| | | Generator, super silenced, 70 dB(A) at 7 m | CNP 103 | 95 | 1 | 100% | 95 |
| | | Dump truck | CNP 067 | 117 | 1 | 30% | 112 |
| | | Total SWL, dB (A) | | | | | 116 |
| Activity 4 - Basement and Underpass | | | | | | | |
| | | Crane, mobile/ barge mounted (diesel) | CNP 048 | 112 | 1 | 60% | 110 |
| | | Crane Lorry 5.5 tonne < gross vehicle weight =< 38 tonne | [1] | 105 | 1 | 60% | 103 |
| | | Concrete pump, stationary/ lorry mounted | CNP 047 | 109 | 1 | 60% | 107 |
| | | Poker, vibratory, hand-held (electric) | [1] | 102 | 5 | 60% | 107 |
| | | Bar bender and cutter (electric) | CNP 021 | 90 | 1 | 60% | 88 |
| | | Generator, super silenced, 70 dB(A) at 7 m | CNP 103 | 95 | 1 | 100% | 95 |
| | | Concrete lorry mixer | CNP 044 | 109 | 1 | 60% | 107 |
| | | Total SWL, dB (A) | | | | | 114 |
| 2b | | Zone 2 (for area with more plant) [3] | | | | | |
| | Activity 3 - Excavation | | | | | | |
| | | Crane, mobile/ barge mounted (diesel) | CNP 048 | 112 | 1 | 60% | 110 |
| | | Air compressor, air flow > 30m3/min | CNP 003 | 104 | 1 | 60% | 102 |
| | | Excavator/ loader, wheeled/ tracked | CNP 081 | 112 | 1 | 60% | 110 |
| | | Generator, super silenced, 70 dB(A) at 7 m | CNP 103 | 95 | 1 | 100% | 95 |
| | | Dump truck | CNP 067 | 117 | 2 | 30% | 115 |
| | | Total SWL, dB (A) | | | | | 117 |
| | Activity 4 - Basement and Underpass | | | | | | |
| | | Crane, tower (electric) | CNP 049 | 95 | 1 | 60% | 93 |
| | | Crane, mobile/ barge mounted (diesel) | CNP 048 | 112 | 1 | 60% | 110 |
| | | Crane Lorry 5.5 tonne < gross vehicle weight =< 38 tonne | [1] | 105 | 1 | 60% | 103 |
| | | Concrete pump, stationary/ lorry mounted | CNP 047 | 109 | 1 | 60% | 107 |
| | | Poker, vibratory, hand-held (electric) | [1] | 102 | 5 | 60% | 107 |
| | | Bar bender and cutter (electric) | CNP 021 | 90 | 1 | 60% | 88 |
| | | Generator, super silenced, 70 dB(A) at 7 m | CNP 103 | 95 | 1 | 100% | 95 |
| | | Air compressor, air flow > 30m3/min | CNP 003 | 104 | 1 | 100% | 104 |
| | | Concrete lorry mixer | CNP 044 | 109 | 1 | 60% | 107 |
| | Total SWL, dB (A) | | | | | 115 | |
| 2c | Zone 2 (for superstructure only) | | | | | | |
| | Activity 5 - Superstructure | | | | | | |
| | | Crane, tower (electric) | CNP 049 | 95 | 4 | 50% | 98 |
| | | Crane, mobile/ barge mounted (diesel) | CNP 048 | 112 | 8 | 50% | 118 |
| | | Crane Lorry 5.5 tonne < gross vehicle weight =< 38 tonne | [1] | 105 | 8 | 50% | 111 |
| | | Concrete pump, stationary/ lorry mounted | CNP 047 | 109 | 8 | 50% | 115 |
| | | Poker, vibratory, hand-held (electric) | [1] | 102 | 40 | 50% | 115 |
| | | Bar bender and cutter (electric) | CNP 021 | 90 | 8 | 50% | 96 |
| | | Generator, super silenced, 70 dB(A) at 7 m | CNP 103 | 95 | 9 | 100% | 105 |
| | | Air compressor, air flow > 30m3/min | CNP 003 | 104 | 4 | 100% | 110 |
| | | Concrete lorry mixer | CNP 044 | 109 | 8 | 50% | 115 |
| | | Drill/grinder, hand-held (electric) | CNP 065 | 98 | 20 | 30% | 106 |
| | | Water pump (electric) | CNP 281 | 88 | 14 | 30% | 94 |
| | | Excavator/ loader, wheeled/ tracked | CNP 081 | 112 | 14 | 30% | 118 |
| | | Fork Lift Truck | [2] | 104 | 14 | 30% | 110 |
| | | Hoist, passenger/ material (electric) | CNP 122 | 95 | 14 | 30% | 101 |
| | | Total SWL, dB (A) | | | | | 124 |

| Item | PME | TM or other reference | SWL, dB(A) | No. of PME | % on time | Total SWL, dB(A) | |
|--|--|---------------------------------------|------------|------------|-----------|------------------|-----|
| 3 | Zone 3 | | | | | | |
| | Activity 3 - Excavation | | | | | | |
| | Crane, mobile/ barge mounted (diesel) | CNP 048 | 112 | 4 | 60% | 116 | |
| | Air compressor, air flow > 30m3/min | CNP 003 | 104 | 4 | 100% | 110 | |
| | Excavator/ loader, wheeled/ tracked | CNP 081 | 112 | 4 | 60% | 116 | |
| | Generator, super silenced, 70 dB(A) at 7 m | CNP 103 | 95 | 4 | 100% | 101 | |
| | Dump truck | CNP 067 | 117 | 6 | 30% | 120 | |
| | Total SWL, dB (A) | | | | | | 122 |
| | Activity 4 - Basement and Underpass | | | | | | |
| | Crane, tower (electric) | CNP 049 | 95 | 2 | 60% | 96 | |
| | Crane, mobile/ barge mounted (diesel) | CNP 048 | 112 | 4 | 60% | 116 | |
| | Crane Lorry 5.5 tonne < gross vehicle weight =< 38 tonne | [1] | 105 | 4 | 60% | 109 | |
| | Concrete pump, stationary/ lorry mounted | CNP 047 | 109 | 4 | 60% | 113 | |
| | Poker, vibratory, hand-held (electric) | [1] | 102 | 20 | 60% | 113 | |
| | Bar bender and cutter (electric) | CNP 021 | 90 | 4 | 60% | 94 | |
| | Generator, super silenced, 70 dB(A) at 7 m | CNP 103 | 95 | 4 | 100% | 101 | |
| | Air compressor, air flow > 30m3/min | CNP 003 | 104 | 2 | 100% | 107 | |
| | Concrete lorry mixer | CNP 044 | 109 | 4 | 60% | 113 | |
| | Total SWL, dB (A) | | | | | | 120 |
| | Activity 5 - Superstructure | | | | | | |
| | Crane, tower (electric) | CNP 049 | 95 | 1 | 50% | 92 | |
| | Crane, mobile/ barge mounted (diesel) | CNP 048 | 112 | 2 | 50% | 112 | |
| | Crane Lorry 5.5 tonne < gross vehicle weight =< 38 tonne | [1] | 105 | 2 | 50% | 105 | |
| | Concrete pump, stationary/ lorry mounted | CNP 047 | 109 | 2 | 50% | 109 | |
| | Poker, vibratory, hand-held (electric) | [1] | 102 | 10 | 50% | 109 | |
| | Bar bender and cutter (electric) | CNP 021 | 90 | 2 | 50% | 90 | |
| | Generator, super silenced, 70 dB(A) at 7 m | CNP 103 | 95 | 3 | 100% | 100 | |
| | Air compressor, air flow > 30m3/min | CNP 003 | 104 | 1 | 100% | 104 | |
| | Concrete lorry mixer | CNP 044 | 109 | 2 | 50% | 109 | |
| | Drill/grinder, hand-held (electric) | CNP 065 | 98 | 6 | 30% | 101 | |
| | Water pump (electric) | CNP 281 | 88 | 4 | 30% | 89 | |
| | Excavator/ loader, wheeled/ tracked | CNP 081 | 112 | 4 | 30% | 113 | |
| | Fork Lift Truck | [2] | 104 | 4 | 30% | 105 | |
| | Hoist, passenger/ material (electric) | CNP 122 | 95 | 4 | 30% | 96 | |
| | Total SWL, dB (A) | | | | | | 118 |
| | 4 | Park Construction - Zone A | | | | | |
| | | Activity 1 - Park Construction | | | | | |
| | | Dump truck | CNP 067 | 117 | 2 | 60% | 118 |
| | | Crane, mobile/ barge mounted (diesel) | CNP 048 | 112 | 2 | 60% | 113 |
| Excavator/ loader, wheeled/ tracked | | CNP 081 | 112 | 2 | 60% | 113 | |
| Generator, super silenced, 70 dB(A) at 7 m | | CNP 103 | 95 | 2 | 100% | 98 | |
| Lorry | | CNP 141 | 112 | 2 | 60% | 113 | |
| Total SWL, dB (A) | | | | | | 121 | |
| Activity 2 - Superstructure | | | | | | | |
| Crane, tower (electric) | | CNP 049 | 95 | 1 | 50% | 92 | |
| Crane, mobile/ barge mounted (diesel) | | CNP 048 | 112 | 2 | 50% | 112 | |
| Crane Lorry 5.5 tonne < gross vehicle weight =< 38 tonne | | [1] | 105 | 2 | 50% | 105 | |
| Concrete pump, stationary/ lorry mounted | | CNP 047 | 109 | 2 | 50% | 109 | |
| Poker, vibratory, hand-held (electric) | | [1] | 102 | 5 | 50% | 106 | |
| Bar bender and cutter (electric) | | CNP 021 | 90 | 2 | 50% | 90 | |
| Generator, super silenced, 70 dB(A) at 7 m | | CNP 103 | 95 | 3 | 100% | 100 | |
| Air compressor, air flow > 30m3/min | | CNP 003 | 104 | 1 | 100% | 104 | |
| Concrete lorry mixer | | CNP 044 | 109 | 2 | 50% | 109 | |
| Drill/grinder, hand-held (electric) | | CNP 065 | 98 | 5 | 30% | 100 | |
| Water pump (electric) | | CNP 281 | 88 | 3 | 30% | 88 | |
| Excavator/ loader, wheeled/ tracked | | CNP 081 | 112 | 3 | 30% | 112 | |
| Fork Lift Truck | [2] | 104 | 3 | 30% | 104 | | |
| Hoist, passenger/ material (electric) | CNP 122 | 95 | 3 | 30% | 95 | | |
| Total SWL, dB (A) | | | | | | 118 | |
| Maximum SWL, dB (A) | | | | | | 118 | |
| 5 | Park Construction - Zone B | | | | | | |
| | Dump truck | CNP 067 | 117 | 1 | 60% | 115 | |
| | Crane, mobile/ barge mounted (diesel) | CNP 048 | 112 | 1 | 60% | 110 | |
| | Excavator/ loader, wheeled/ tracked | CNP 081 | 112 | 1 | 60% | 110 | |
| | Generator, super silenced, 70 dB(A) at 7 m | CNP 103 | 95 | 1 | 100% | 95 | |
| | Lorry | CNP 141 | 112 | 1 | 60% | 110 | |
| | Total SWL, dB (A) | | | | | | 118 |
| 6/7 | ICC Footbridge / Flyover | | | | | | |
| | Group 1 | | | | | | |
| | Air compressor, air flow > 10m3/min and <= 30m3/min | CNP 002 | 102 | 1 | 100% | 102 | |
| | Breaker, hand-held, mass > 35kg | CNP 026 | 114 | 2 | 30% | 112 | |
| | Crane, mobile/ barge mounted (diesel) | CNP 048 | 112 | 1 | 100% | 112 | |
| | Crane Lorry 5.5 tonne < gross vehicle weight =< 38 tonne | [1] | 105 | 1 | 70% | 103 | |
| | Bar bender and cutter (electric) | CNP 021 | 90 | 1 | 80% | 89 | |
| | Generator, super silenced, 70 dB(A) at 7 m | CNP 103 | 95 | 1 | 100% | 95 | |
| | Total SWL, dB (A) | | | | | | 115 |
| | Group 2 | | | | | | |
| | Breaker, hand-held, mass > 35kg | CNP 026 | 114 | 2 | 30% | 112 | |
| | Breaker, hand-held, mass > 10kg and < 20kg | CNP 024 | 108 | 1 | 30% | 103 | |
| | Concrete lorry mixer | CNP 044 | 109 | 1 | 50% | 106 | |
| | Poker, vibratory, hand-held (electric) | [1] | 102 | 2 | 50% | 102 | |
| | Grout pump | [1] | 105 | 1 | 20% | 98 | |
| | Saw, circular, wood | CNP 201 | 108 | 1 | 80% | 107 | |
| | Generator, super silenced, 70 dB(A) at 7 m | CNP 103 | 95 | 1 | 100% | 95 | |
| | Total SWL, dB (A) | | | | | | 115 |
| | Maximum SWL, dB (A) | | | | | | 115 |

| Item | PME | TM or other reference | SWL, dB(A) | No. of PME | % on time | Total SWL, dB(A) | |
|-------------------------------------|---|-----------------------|------------|------------|-----------|------------------|-----|
| 8 | East Concrete Batching Plant (Operation) | | | | | | |
| | Group 1 | | | | | | |
| | Excavator/ loader, wheeled/ tracked | CNP 081 | 112 | 1 | 60% | 110 | |
| | Concrete mixer (electric) | CNP 045 | 96 | 1 | 60% | 94 | |
| | Generator, super silenced, 70 dB(A) at 7 m | CNP 103 | 95 | 2 | 60% | 96 | |
| | Concrete mixer (petrol) | CNP 046 | 96 | 3 | 60% | 99 | |
| | Concrete lorry mixer | CNP 044 | 109 | 2 | 60% | 110 | |
| | Batching plant | CNP 022 | 108 | 1 | 60% | 106 | |
| | Air compressor, air flow > 10m3/min and <= 30m3/min | CNP 002 | 102 | 2 | 60% | 103 | |
| | Tipper Lorry | BS 5228 Table D.3/112 | 113 | 1 | 30% | 108 | |
| | Total SWL, dB (A) | | | | | | 115 |
| | Group 2 | | | | | | |
| | Excavator/ loader, wheeled/ tracked | CNP 081 | 112 | 1 | 60% | 110 | |
| | Concrete mixer (electric) | CNP 045 | 96 | 1 | 60% | 94 | |
| | Generator, super silenced, 70 dB(A) at 7 m | CNP 103 | 95 | 2 | 60% | 96 | |
| | Concrete mixer (petrol) | CNP 046 | 96 | 3 | 60% | 99 | |
| | Concrete lorry mixer | CNP 044 | 109 | 2 | 60% | 110 | |
| | Batching plant | CNP 022 | 108 | 1 | 60% | 106 | |
| | Air compressor, air flow > 10m3/min and <= 30m3/min | CNP 002 | 102 | 2 | 60% | 103 | |
| | Tipper Lorry | BS 5228 Table D.3/112 | 113 | 1 | 30% | 108 | |
| | Total SWL, dB (A) | | | | | | 115 |
| | Maximum SWL, dB (A) | | | | | | 115 |
| | 9 | Barging Points | | | | | |
| Derrick barge | | CNP 061 | 104 | 1 | 60% | 102 | |
| Tug boat | | CNP 221 | 110 | 1 | 60% | 108 | |
| Dump truck | | CNP 067 | 117 | 6 | 30% | 120 | |
| Excavator/ loader, wheeled/ tracked | | CNP 081 | 112 | 1 | 60% | 110 | |
| Conveyor belt | | CNP 041 | 90 | 1 | 60% | 88 | |
| Total SWL, dB (A) | | | | | | 120 | |
| 10 | Modification of seawalls and construction of seawater outfalls | | | | | | |
| | Crane, mobile/ barge mounted (diesel) | CNP 048 | 112 | 1 | 60% | 110 | |
| | Air compressor, air flow > 10m3/min and <= 30m3/min | CNP 002 | 102 | 2 | 100% | 105 | |
| | Generator, super silenced, 70 dB(A) at 7 m | CNP 103 | 95 | 2 | 100% | 98 | |
| | Concrete pump, stationary/ lorry mounted | CNP 047 | 109 | 2 | 100% | 112 | |
| | Concrete lorry mixer | CNP 044 | 109 | 2 | 60% | 110 | |
| | Poker, vibratory, hand-held (electric) | [1] | 102 | 4 | 80% | 107 | |
| | Tug boat | CNP 221 | 110 | 1 | 60% | 108 | |
| Total SWL, dB (A) | | | | | | 117 | |
| 11/12 | Pier Construction (Optional) | | | | | | |
| | Group 1 | | | | | | |
| | Piling, large diameter bored, reverse circulation drill | CNP 166 | 100 | 1 | 100% | 100 | |
| | Crane, mobile/ barge mounted (diesel) | CNP 048 | 112 | 1 | 60% | 110 | |
| | Tug boat | CNP 221 | 110 | 1 | 60% | 108 | |
| | Total SWL, dB (A) | | | | | | 112 |
| | Group 2 | | | | | | |
| | Concrete pump, stationary/ lorry mounted | CNP 047 | 109 | 2 | 100% | 112 | |
| | Concrete lorry mixer | CNP 044 | 109 | 4 | 60% | 113 | |
| | Water pump (electric) | CNP 281 | 88 | 4 | 100% | 94 | |
| | Generator, super silenced, 70 dB(A) at 7 m | CNP 103 | 95 | 2 | 100% | 98 | |
| | Air compressor, air flow > 10m3/min and <= 30m3/min | CNP 002 | 102 | 2 | 100% | 105 | |
| | Crane, mobile/ barge mounted (diesel) | CNP 048 | 112 | 1 | 60% | 110 | |
| | Tug boat | CNP 221 | 110 | 1 | 60% | 108 | |
| | Total SWL, dB (A) | | | | | | 117 |
| | Group 3 | | | | | | |
| | Crane, mobile/ barge mounted (diesel) | CNP 048 | 112 | 1 | 60% | 110 | |
| | Air compressor, air flow > 10m3/min and <= 30m3/min | CNP 002 | 102 | 2 | 100% | 105 | |
| | Generator, super silenced, 70 dB(A) at 7 m | CNP 103 | 95 | 2 | 100% | 98 | |
| | Concrete pump, stationary/ lorry mounted | CNP 047 | 109 | 2 | 100% | 112 | |
| | Concrete lorry mixer | CNP 044 | 109 | 2 | 60% | 110 | |
| | Poker, vibratory, hand-held (electric) | [1] | 102 | 4 | 80% | 107 | |
| | Tug boat | CNP 221 | 110 | 1 | 60% | 108 | |
| Total SWL, dB (A) | | | | | | 117 | |
| Maximum SWL, dB (A) | | | | | | 117 | |
| 13 | Viewing Platform (Optional) | | | | | | |
| | Group 1 | | | | | | |
| | Piling, large diameter bored, reverse circulation drill | CNP 166 | 100 | 1 | 100% | 100 | |
| | Crane, mobile/ barge mounted (diesel) | CNP 048 | 112 | 1 | 80% | 111 | |
| | Tug boat | CNP 221 | 110 | 1 | 60% | 108 | |
| | Total SWL, dB (A) | | | | | | 113 |
| | Group 2 | | | | | | |
| | Crane, mobile/ barge mounted (diesel) | CNP 048 | 112 | 2 | 100% | 115 | |
| | Total SWL, dB (A) | | | | | | 115 |
| | Maximum SWL, dB (A) | | | | | | 115 |

Note: [1] Details extracted from EPD website: http://www.epd.gov.hk/epd/english/application_for_licences/guidance/files/OtherSWLe.pdf

[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.

Unmitigated 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) | 2015 | | | | | | | | | | | | 2016 | | | | | | | | | | | | | | | | | | | | | | |
|---|-------------------|--------------|-----------------------------|--------------------------|-----------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-------------|------------|-------------|------------|-------------|------------|-----------|-----------|-----------|-----------|-----------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| | | | | | | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 1 | 2 | 3 | | | | | | | | | | | | | | | | | | | | | | | |
| 1) Zone 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Activity 5 - Superstructure | 116 | 481 | -62 | 3 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | | | | | | | | | | | | | | | |
| 2) Zone 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Activity 3 - Excavation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Zone 2.1 | 117 | 116 | -49 | 3 | 71 | 71 | 71 | 71 | 71 | 71 | 71 | 71 | 71 | 71 | 71 | 71 | 71 | 71 | 71 | 71 | 71 | 71 | 71 | 71 | 71 | | | | | | | | | | | | | | | |
| Zone 2.2 | 117 | 102 | -48 | 3 | 72 | 72 | 72 | 72 | 72 | 72 | 72 | 72 | 72 | 72 | 72 | 72 | 72 | 72 | 72 | 72 | 72 | 72 | 72 | 72 | 72 | | | | | | | | | | | | | | | |
| Zone 2.3 | 116 | 203 | -54 | 3 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | | | | | | | | | | | | | | | |
| Zone 2.4 | 116 | 357 | -59 | 3 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | | | | | | | | | | | | | | | |
| Zone 2.5 | 116 | 377 | -60 | 3 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | | | | | | | | | | | | | | | |
| Zone 2.6 | 116 | 258 | -56 | 3 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | | | | | | | | | | | | | | | |
| Zone 2.7 | 117 | 179 | -53 | 3 | 67 | 67 | 67 | 67 | 67 | 67 | 67 | 67 | 67 | 67 | 67 | 67 | 67 | 67 | 67 | 67 | 67 | 67 | 67 | 67 | 67 | | | | | | | | | | | | | | | |
| Zone 2.8 | 117 | 228 | -55 | 3 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | | | | | | | | | | | | | | | |
| Activity 4 - Basement and Underpass | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Zone 2.1 | 115 | 116 | -49 | 3 | 68 | 68 | 68 | 68 | 68 | 68 | 68 | 68 | 68 | 68 | 68 | 68 | 68 | 68 | 68 | 68 | 68 | 68 | 68 | 68 | 68 | | | | | | | | | | | | | | | |
| Zone 2.2 | 115 | 102 | -48 | 3 | 69 | 69 | 69 | 69 | 69 | 69 | 69 | 69 | 69 | 69 | 69 | 69 | 69 | 69 | 69 | 69 | 69 | 69 | 69 | 69 | 69 | | | | | | | | | | | | | | | |
| Zone 2.3 | 114 | 203 | -54 | 3 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | | | | | | | | | | | | | | | |
| Zone 2.4 | 114 | 357 | -59 | 3 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | | | | | | | | | | | | | | | |
| Zone 2.5 | 114 | 377 | -60 | 3 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | | | | | | | | | | | | | | | |
| Zone 2.6 | 114 | 258 | -56 | 3 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | | | | | | | | | | | | | | | |
| Zone 2.7 | 115 | 179 | -53 | 3 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | | | | | | | | | | | | | | | |
| Zone 2.8 | 115 | 228 | -55 | 3 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | | | | | | | | | | | | | | | |
| Activity 5 - Superstructure | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lyric Theatre | 124 | 258 | -56 | 3 | 71 | | | | | | | | | | | | | | | | 71 | 71 | 71 | 71 | 71 | | | | | | | | | | | | | | | |
| CCP | 124 | 282 | -57 | 3 | 70 | | | | | | | | | | | | | | | | 70 | 70 | 70 | 70 | 70 | | | | | | | | | | | | | | | |
| 3) Zone 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Activity 3 - Excavation | 122 | 317 | -58 | 3 | 67 | 67 | 67 | 67 | 67 | 67 | 67 | 67 | 67 | 67 | 67 | 67 | 67 | 67 | 67 | 67 | 67 | 67 | 67 | 67 | 67 | | | | | | | | | | | | | | | |
| Activity 4 - Basement and Underpass | 120 | 317 | -58 | 3 | 65 | | | | | | | | | | | | | | | | 65 | 65 | 65 | 65 | 65 | | | | | | | | | | | | | | | |
| Activity 5 - Superstructure | 118 | 256 | -56 | 3 | 65 | | | | | | | | | | | | | | | | | | | | 65 | | | | | | | | | | | | | | | |
| 4) Park Construction - Zone A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Zone A | 118 | 264 | -56 | 3 | 64 | | | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | | | | | | | | | | | | | | | |
| 6) ICC Footbridge | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ICC Footbridge | 115 | 211 | -54 | 3 | 64 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7) Flyover | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Flyover | 115 | 287 | -57 | 3 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | | | | | | | | | | | | | | | |
| 8) East Concrete Batching Plant (Operation) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| East Concrete Batching Plant (Operation) | 115 | 461 | -61 | 3 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | | | | | | | | | | | | | | | |
| 9) Barging Point (BP) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BP4 | 120 | 307 | -58 | 3 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | | | | | | | | | | | | | | | |
| BP5 | 120 | 327 | -58 | 3 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | | | | | | | | | | | | | | | |
| BP6 | 120 | 506 | -62 | 3 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | | | | | | | | | | | | | | | |
| BP7 | 120 | 616 | -64 | 3 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | | | | | | | | | | | | | | | |
| 10) Modification of seawalls / construction of seawater outfalls | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Outfall of WKCD DCWS | 117 | 292 | -57 | 3 | 63 | | | | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | | | | | | | | | | | | | | | |
| Outfall of Independent Cooling System for Freespace | 117 | 761 | -66 | 3 | 54 | | | | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | | | | | | | | | | | | | | | | |
| 11) West Pier (Optional) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| West Pier (Optional) | 117 | 846 | -67 | 3 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | | | | | | | | | | | | | | | |
| 12) South Pier (Optional) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| South Pier (Optional) | 117 | 347 | -59 | 3 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | | | | | | | | | | | | | | | |
| 13) Viewing Platform (Optional) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Viewing Platform (Optional) | 115 | 342 | -59 | 3 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | | | | | | | | | | | | | | | |
| Predicted Noise Level of this Project, dB (A) | | | | | | 79 | 79 | 79 | 80 | 80 | 80 | 79 | 81 | 81 | 80 | 80 | 81 | 81 | 80 | 80 | 81 | 81 | 80 | 80 | 81 | | | | | | | | | | | | | | | |
| Predicted Noise Level of Express Rail Link, dB(A)¹ | | | | | | 63 | 63 | 61 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Overall Cumulative Noise Level, dB(A) | | | | | | 84 | 80 | 80 | 80 | 80 | 80 | 79 | 81 | 81 | 80 | 80 | 81 | 81 | 80 | 80 | 81 | 81 | 80 | 80 | 81 | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | 2015 | | 2016 | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | Min | Max | Min | Max | Min | Max | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | 2015 | | 2016 | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | Min | Max | 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) Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

Unmitigated 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) | 2015 | | | | | | | | | | | | 2016 | | | | |
|---|-------------------|--------------|-----------------------------|--------------------------|-----------------------|------|----|----|----|----|----|----|----|----|-------------|-----|-------------|------|-------------|----|--|--|
| | | | | | | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 1 | 2 | 3 | | | | | |
| 1) Zone 1 | | | | | | | | | | | | | | | | | | | | | | |
| Activity 5 - Superstructure | 116 | 576 | -63 | 3 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | | | |
| 2) Zone 2 | | | | | | | | | | | | | | | | | | | | | | |
| Activity 3 - Excavation | | | | | | | | | | | | | | | | | | | | | | |
| Zone 2.1 | 117 | 111 | -49 | 3 | 71 | 71 | 71 | 71 | 71 | 71 | 71 | 71 | 71 | 71 | 71 | 71 | 71 | 71 | 71 | | | |
| Zone 2.2 | 117 | 169 | -53 | 3 | 68 | 68 | 68 | 68 | 68 | 68 | 68 | 68 | 68 | 68 | 68 | 68 | 68 | 68 | 68 | | | |
| Zone 2.3 | 116 | 302 | -58 | 3 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | | | |
| Zone 2.4 | 116 | 446 | -61 | 3 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | | | |
| Zone 2.5 | 116 | 456 | -61 | 3 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | | | |
| Zone 2.6 | 116 | 342 | -59 | 3 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | | | |
| Zone 2.7 | 117 | 228 | -55 | 3 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | | | |
| Zone 2.8 | 117 | 208 | -54 | 3 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | | | |
| Activity 4 - Basement and Underpass | | | | | | | | | | | | | | | | | | | | | | |
| Zone 2.1 | 115 | 111 | -49 | 3 | 69 | 69 | 69 | 69 | 69 | 69 | 69 | 69 | 69 | 69 | 69 | 69 | 69 | 69 | 69 | | | |
| Zone 2.2 | 115 | 169 | -53 | 3 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | | | |
| Zone 2.3 | 114 | 302 | -58 | 3 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | | | |
| Zone 2.4 | 114 | 446 | -61 | 3 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | | | |
| Zone 2.5 | 114 | 456 | -61 | 3 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | | | |
| Zone 2.6 | 114 | 342 | -59 | 3 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | | | |
| Zone 2.7 | 115 | 228 | -55 | 3 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | | | |
| Zone 2.8 | 115 | 208 | -54 | 3 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | | | |
| Activity 5 - Superstructure | | | | | | | | | | | | | | | | | | | | | | |
| Lyric Theatre | 124 | 382 | -60 | 3 | 68 | | | | | | | | | | | 68 | 68 | 68 | 68 | | | |
| CCP | 124 | 218 | -55 | 3 | 73 | | | | | | | | | | | 73 | 73 | 73 | 73 | | | |
| 3) Zone 3 | | | | | | | | | | | | | | | | | | | | | | |
| Activity 3 - Excavation | 122 | 227 | -55 | 3 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | | | | | | | | | | | |
| Activity 4 - Basement and Underpass | 120 | 227 | -55 | 3 | 68 | | | | | | | 68 | 68 | 68 | 68 | 68 | 68 | 68 | 68 | | | |
| Activity 5 - Superstructure | 118 | 180 | -53 | 3 | 68 | | | | | | | | | | | | | | 68 | | | |
| 4) Park Construction - Zone A | | | | | | | | | | | | | | | | | | | | | | |
| 118 | 525 | -62 | 3 | 58 | 58 | | | | | | | | | | | | | | | | | |
| 5) Park Construction - Zone B | | | | | | | | | | | | | | | | | | | | | | |
| 118 | 283 | -57 | 3 | 64 | | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | | | |
| 6) ICC Footbridge | | | | | | | | | | | | | | | | | | | | | | |
| 115 | 125 | -50 | 3 | 68 | | | | | | | | | | | | | | | | | | |
| 7) Flyover | | | | | | | | | | | | | | | | | | | | | | |
| 115 | 198 | -54 | 3 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | | | |
| 8) East Concrete Batching Plant (Operation) | | | | | | | | | | | | | | | | | | | | | | |
| 115 | 554 | -63 | 3 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | | | |
| 9) Barging Point (BP) | | | | | | | | | | | | | | | | | | | | | | |
| BP4 | 120 | 302 | -58 | 3 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | | | |
| BP5 | 120 | 312 | -58 | 3 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | | | |
| BP6 | 120 | 461 | -61 | 3 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | | | |
| BP7 | 120 | 576 | -63 | 3 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | | | |
| 10) Modification of seawalls / construction of seawater outfalls | | | | | | | | | | | | | | | | | | | | | | |
| Outfall of WKCD DCWS | 117 | 297 | -57 | 3 | 63 | | | | 63 | 63 | 63 | 63 | 63 | 63 | 63 | | | | | | | |
| Outfall of Independent Cooling System for Freespace | 117 | 701 | -65 | 3 | 55 | | | | 55 | 55 | 55 | 55 | 55 | 55 | 55 | | | | | | | |
| 11) West Pier (Optional) | | | | | | | | | | | | | | | | | | | | | | |
| 117 | 756 | -66 | 3 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | | | |
| 12) South Pier (Optional) | | | | | | | | | | | | | | | | | | | | | | |
| 117 | 327 | -58 | 3 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | | | |
| 13) Viewing Platform (Optional) | | | | | | | | | | | | | | | | | | | | | | |
| 115 | 412 | -60 | 3 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | | | |
| Predicted Noise Level of this Project, dB (A) | | | | | | 79 | 79 | 79 | 79 | 79 | 79 | 79 | 79 | 80 | 80 | 80 | 80 | 80 | 80 | | | |
| Predicted Noise Level of Express Rail Link, dB(A)¹ | | | | | | 47 | 47 | 47 | | | | | | | | | | | | | | |
| Overall Cumulative Noise Level, dB(A) | | | | | | 83 | 79 | 79 | 79 | 79 | 79 | 79 | 79 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | | |
| | | | | | | | | | | | | | | | 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

- 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.

Unmitigated 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) | 2015 | | | | | | | | | | | | 2016 | | | |
|---|-------------------|--------------|-----------------------------|--------------------------|-----------------------|------|----|----|----|----|----|----|----|----|-------------|------------|-------------|------------|----|----|----|
| | | | | | | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 1 | 2 | 3 | | | | |
| 1) Zone 1 | | | | | | | | | | | | | | | | | | | | | |
| Activity 5 - Superstructure | 116 | 391 | -60 | 3 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | | |
| 2) Zone 2 | | | | | | | | | | | | | | | | | | | | | |
| Activity 3 - Excavation | | | | | | | | | | | | | | | | | | | | | |
| Zone 2.1 | 117 | 178 | -53 | 3 | 67 | 67 | 67 | 67 | 67 | 67 | 67 | 67 | 67 | 67 | 67 | 67 | 67 | 67 | 67 | | |
| Zone 2.2 | 117 | 92 | -47 | 3 | 73 | 73 | 73 | 73 | 73 | 73 | 73 | 73 | 73 | 73 | 73 | 73 | 73 | 73 | 73 | | |
| Zone 2.3 | 116 | 139 | -51 | 3 | 68 | 68 | 68 | 68 | 68 | 68 | 68 | 68 | 68 | 68 | 68 | 68 | 68 | 68 | 68 | | |
| Zone 2.4 | 116 | 257 | -56 | 3 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | | |
| Zone 2.5 | 116 | 302 | -58 | 3 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | | |
| Zone 2.6 | 116 | 203 | -54 | 3 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | | |
| Zone 2.7 | 117 | 188 | -53 | 3 | 67 | 67 | 67 | 67 | 67 | 67 | 67 | 67 | 67 | 67 | 67 | 67 | 67 | 67 | 67 | | |
| Zone 2.8 | 117 | 282 | -57 | 3 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | | |
| Activity 4 - Basement and Underpass | | | | | | | | | | | | | | | | | | | | | |
| Zone 2.1 | 115 | 178 | -53 | 3 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | | |
| Zone 2.2 | 115 | 92 | -47 | 3 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | | |
| Zone 2.3 | 114 | 139 | -51 | 3 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | | |
| Zone 2.4 | 114 | 257 | -56 | 3 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | | |
| Zone 2.5 | 114 | 302 | -58 | 3 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | | |
| Zone 2.6 | 114 | 203 | -54 | 3 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | | |
| Zone 2.7 | 115 | 188 | -53 | 3 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | | |
| Zone 2.8 | 115 | 282 | -57 | 3 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | | |
| Activity 5 - Superstructure | | | | | | | | | | | | | | | | | | | | | |
| Lyric Theatre | 124 | 337 | -59 | 3 | 69 | | | | | | | | | | | 69 | 69 | 69 | 69 | | |
| CCP | 124 | 203 | -54 | 3 | 73 | | | | | | | | | | | 73 | 73 | 73 | 73 | | |
| 3) Zone 3 | | | | | | | | | | | | | | | | | | | | | |
| Activity 3 - Excavation | 122 | 411 | -60 | 3 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | | | | | | | | | | |
| Activity 4 - Basement and Underpass | 120 | 411 | -60 | 3 | 63 | | | | | | | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | | |
| Activity 5 - Superstructure | 118 | 341 | -59 | 3 | 63 | | | | | | | | | | | | | | 63 | | |
| 4) Park Construction - Zone A | | | | | | | | | | | | | | | | | | | | | |
| 118 | 650 | -64 | 3 | 57 | 57 | | | | | | | | | | | | | | | | |
| 5) Park Construction - Zone B | | | | | | | | | | | | | | | | | | | | | |
| 118 | 262 | -66 | 3 | 64 | | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | | |
| 6) ICC Footbridge | | | | | | | | | | | | | | | | | | | | | |
| 115 | 298 | -57 | 3 | 61 | | | | | | | | | | | | | | | | | |
| 7) Flyover | | | | | | | | | | | | | | | | | | | | | |
| 115 | 379 | -60 | 3 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | | |
| 8) East Concrete Batching Plant (Operation) | | | | | | | | | | | | | | | | | | | | | |
| 115 | 377 | -60 | 3 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | | |
| 9) Barging Point (BP) | | | | | | | | | | | | | | | | | | | | | |
| BP4 | 120 | 357 | -59 | 3 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | | |
| BP5 | 120 | 387 | -60 | 3 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | | |
| BP6 | 120 | 576 | -63 | 3 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | | |
| BP7 | 120 | 691 | -65 | 3 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | | |
| 10) Modification of seawalls / construction of seawater outfalls | | | | | | | | | | | | | | | | | | | | | |
| Outfall of WKCD DCWS | 117 | 337 | -59 | 3 | 61 | | | | 61 | 61 | 61 | 61 | 61 | 61 | 61 | | | | | | |
| Outfall of Independent Cooling System for Freespace | 117 | 836 | -66 | 3 | 54 | | | | 54 | 54 | 54 | 54 | 54 | 54 | 54 | | | | | | |
| 11) West Pier (Optional) | | | | | | | | | | | | | | | | | | | | | |
| 117 | 936 | -67 | 3 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | | |
| 12) South Pier (Optional) | | | | | | | | | | | | | | | | | | | | | |
| 117 | 396 | -60 | 3 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | | |
| 13) Viewing Platform (Optional) | | | | | | | | | | | | | | | | | | | | | |
| 115 | 297 | -57 | 3 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | | |
| Predicted Noise Level of this Project, dB (A) | | | | | | 79 | 79 | 79 | 79 | 79 | 80 | 79 | 81 | 81 | 81 | 81 | 81 | 81 | 81 | 81 | |
| Predicted Noise Level of Express Rail Link, dB(A)¹ | | | | | | 69 | 69 | 68 | | | | | | | | | | | | | |
| Overall Cumulative Noise Level, dB(A) | | | | | | 84 | 80 | 80 | 79 | 79 | 80 | 79 | 81 | 81 | 81 | 81 | 81 | 81 | 81 | 81 | 81 |
| | | | | | | | | | | | | | | | 2015 | | 2016 | | | | |
| | | | | | | | | | | | | | | | Min | Max | Min | Max | | | |
| | | | | | | | | | | | | | | | 2015 | | 2016 | | | | |
| | | | | | | | | | | | | | | | 79 | 81 | 81 | 81 | | | |
| | | | | | | | | | | | | | | | 79 | 84 | 81 | 81 | | | |

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

- 1) Predicted Noise Levels are referred to NSR WK14 in Appendix 5.8 of approved EIA of Express Rail Link (AEIAR-143/2009). Delaying of 6 months of WKT construction programme in VEP have been included in predicted noise level.
- 2) Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

Unmitigated Construction Noise Impact

NSR: RD (Residential Development next to Austin Station)

| Construction Programme with Predicted Noise Level (dB, (A)) | Total SWL, dB (A) | Distance (m) | Distance Correction, dB (A) | Facade Correction, dB(A) | Calculated SPL, dB(A) | 2015 | | | | | | | | | | | | 2016 | | |
|---|-------------------|--------------|-----------------------------|--------------------------|-----------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-------------|------------|-------------|------------|--|--|
| | | | | | | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 1 | 2 | 3 | | | |
| 1) Zone 1 | | | | | | | | | | | | | | | | | | | | |
| Activity 5 - Superstructure | 116 | 99 | -48 | 3 | 71 | 71 | 71 | 71 | 71 | 71 | 71 | 71 | 71 | 71 | 71 | 71 | 71 | | | |
| 2) Zone 2 | | | | | | | | | | | | | | | | | | | | |
| Activity 3 - Excavation | | | | | | | | | | | | | | | | | | | | |
| Zone 2.1 | 117 | 621 | -64 | 3 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | | | |
| Zone 2.2 | 117 | 454 | -61 | 3 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | | | |
| Zone 2.3 | 116 | 303 | -58 | 3 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | | | |
| Zone 2.4 | 116 | 158 | -52 | 3 | 67 | 67 | 67 | 67 | 67 | 67 | 67 | 67 | 67 | 67 | 67 | 67 | 67 | | | |
| Zone 2.5 | 116 | 224 | -55 | 3 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | | | |
| Zone 2.6 | 116 | 330 | -58 | 3 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | | | |
| Zone 2.7 | 117 | 492 | -62 | 3 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | | | |
| Zone 2.8 | 117 | 664 | -64 | 3 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | | | |
| Activity 4 - Basement and Underpass | | | | | | | | | | | | | | | | | | | | |
| Zone 2.1 | 115 | 621 | -64 | 3 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | | | |
| Zone 2.2 | 115 | 454 | -61 | 3 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | | | |
| Zone 2.3 | 114 | 303 | -58 | 3 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | | | |
| Zone 2.4 | 114 | 158 | -52 | 3 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | | | |
| Zone 2.5 | 114 | 224 | -55 | 3 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | | | |
| Zone 2.6 | 114 | 330 | -58 | 3 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | | | |
| Zone 2.7 | 115 | 492 | -62 | 3 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | | | |
| Zone 2.8 | 115 | 664 | -64 | 3 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | | | |
| Activity 5 - Superstructure | | | | | | | | | | | | | | | | | | | | |
| Lyric Theatre | 124 | 771 | -66 | 3 | 62 | | | | | | | | | | 62 | 62 | 62 | | | |
| CCP | 124 | 267 | -57 | 3 | 71 | | | | | | | | | | 71 | 71 | 71 | | | |
| 3) Zone 3 | | | | | | | | | | | | | | | | | | | | |
| Activity 3 - Excavation | 122 | 864 | -67 | 3 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | | | | | | | | | |
| Activity 4 - Basement and Underpass | 120 | 864 | -67 | 3 | 57 | | | | | | | 57 | 57 | 57 | 57 | 57 | 57 | | | |
| Activity 5 - Superstructure | 118 | 822 | -66 | 3 | 55 | | | | | | | | | | | | 55 | | | |
| 4) Park Construction - Zone A | | | | | | | | | | | | | | | | | | | | |
| 118 | 1036 | -68 | 3 | 53 | 53 | | | | | | | | | | | | | | | |
| 5) Park Construction - Zone B | | | | | | | | | | | | | | | | | | | | |
| 118 | 251 | -56 | 3 | 65 | | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | | | |
| 6) ICC Footbridge | | | | | | | | | | | | | | | | | | | | |
| 115 | 759 | -66 | 3 | 53 | | | | | | | | | | | | | | | | |
| 7) Flyover | | | | | | | | | | | | | | | | | | | | |
| 115 | 837 | -66 | 3 | 52 | 52 | 52 | 52 | 52 | 52 | 52 | 52 | 52 | 52 | 52 | 52 | 52 | 52 | | | |
| 8) East Concrete Batching Plant (Operation) | | | | | | | | | | | | | | | | | | | | |
| 115 | 165 | -52 | 3 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | | | |
| 9) Barging Point (BP) | | | | | | | | | | | | | | | | | | | | |
| BP4 | 120 | 731 | -65 | 3 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | | | |
| BP5 | 120 | 776 | -66 | 3 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | | | |
| BP6 | 120 | 986 | -68 | 3 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | | | |
| BP7 | 120 | 1086 | -69 | 3 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | | | |
| 10) Modification of seawalls / construction of seawater outfalls | | | | | | | | | | | | | | | | | | | | |
| Outfall of WKCD DCWS | 117 | 701 | -65 | 3 | 55 | | | | 55 | 55 | 55 | 55 | 55 | 55 | | | | | | |
| Outfall of Independent Cooling System for Freespace | 117 | 1251 | -70 | 3 | 50 | | | | 50 | 50 | 50 | 50 | 50 | 50 | | | | | | |
| 11) West Pier (Optional) | | | | | | | | | | | | | | | | | | | | |
| 117 | 1391 | -71 | 3 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | | | |
| 12) South Pier (Optional) | | | | | | | | | | | | | | | | | | | | |
| 117 | 771 | -66 | 3 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | | | |
| 13) Viewing Platform (Optional) | | | | | | | | | | | | | | | | | | | | |
| 115 | 447 | -61 | 3 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | | | |
| Predicted Noise Level of this Project, dB (A) | | | | | | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 77 | 77 | 77 | 77 | 77 | | | |
| Predicted Noise Level of Express Rail Link, dB(A)¹ | | | | | | 68 | 68 | 66 | | | | | | | | | | | | |
| Overall Cumulative Noise Level, dB(A) | | | | | | 80 | 77 | 77 | 76 | 76 | 76 | 76 | 77 | 77 | 77 | 77 | 77 | | | |
| | | | | | | | | | | | | | | | 2015 | | 2016 | | | |
| | | | | | | | | | | | | | | | Min | Max | Min | Max | | |
| | | | | | | | | | | | | | | | 76 | 77 | 76 | 77 | | |
| | | | | | | | | | | | | | | | 2015 | | 2016 | | | |
| | | | | | | | | | | | | | | | Min | Max | Min | Max | | |
| | | | | | | | | | | | | | | | 76 | 80 | 77 | 77 | | |

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.

Unmitigated 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) | 2015 | | | | | | | | | | | | 2016 | | | | | | | | | | | | | | | | | | | | | | |
|---|-------------------|--------------|-----------------------------|--------------------------|-----------------------|------|----|----|----|----|----|----|----|----|-------------|------------|-------------|------------|----|----|----|----|----|----|----|----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| | | | | | | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 1 | 2 | 3 | | | | | | | | | | | | | | | | | | | | | | | |
| 1) Zone 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Activity 5 - Superstructure | 116 | 100 | -48 | 3 | 71 | 71 | 71 | 71 | 71 | 71 | 71 | 71 | 71 | 71 | 71 | 71 | 71 | 71 | 71 | 71 | 71 | 71 | 71 | 71 | 71 | | | | | | | | | | | | | | | |
| 2) Zone 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Activity 3 - Excavation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Zone 2.1 | 117 | 695 | -65 | 3 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | | | | | | | | | | | | | | | |
| Zone 2.2 | 117 | 525 | -62 | 3 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | | | | | | | | | | | | | | | |
| Zone 2.3 | 116 | 370 | -59 | 3 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | | | | | | | | | | | | | | | |
| Zone 2.4 | 116 | 225 | -55 | 3 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | | | | | | | | | | | | | | | |
| Zone 2.5 | 116 | 260 | -56 | 3 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | | | | | | | | | | | | | | | |
| Zone 2.6 | 116 | 405 | -60 | 3 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | | | | | | | | | | | | | | | |
| Zone 2.7 | 117 | 570 | -63 | 3 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | | | | | | | | | | | | | | | |
| Zone 2.8 | 117 | 750 | -66 | 3 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | | | | | | | | | | | | | | | |
| Activity 4 - Basement and Underpass | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Zone 2.1 | 115 | 695 | -65 | 3 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | | | | | | | | | | | | | | | |
| Zone 2.2 | 115 | 525 | -62 | 3 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | | | | | | | | | | | | | | | |
| Zone 2.3 | 114 | 370 | -59 | 3 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | | | | | | | | | | | | | | | |
| Zone 2.4 | 114 | 225 | -55 | 3 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | | | | | | | | | | | | | | | |
| Zone 2.5 | 114 | 260 | -56 | 3 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | | | | | | | | | | | | | | | |
| Zone 2.6 | 114 | 405 | -60 | 3 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | | | | | | | | | | | | | | | |
| Zone 2.7 | 115 | 570 | -63 | 3 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | | | | | | | | | | | | | | | |
| Zone 2.8 | 115 | 750 | -66 | 3 | 52 | 52 | 52 | 52 | 52 | 52 | 52 | 52 | 52 | 52 | 52 | 52 | 52 | 52 | 52 | 52 | 52 | 52 | 52 | 52 | 52 | | | | | | | | | | | | | | | |
| Activity 5 - Superstructure | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lyric Theatre | 124 | 851 | -67 | 3 | 61 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CCP | 124 | 352 | -59 | 3 | 68 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3) Zone 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Activity 3 - Excavation | 122 | 946 | -68 | 3 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | | | | | | | | | | | | | | | |
| Activity 4 - Basement and Underpass | 120 | 946 | -68 | 3 | 56 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Activity 5 - Superstructure | 118 | 876 | -67 | 3 | 55 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4) Park Construction - Zone A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Zone A | 118 | 1107 | -69 | 3 | 52 | 52 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5) Park Construction - Zone B | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Zone B | 118 | 282 | -57 | 3 | 64 | | | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | | | | | | | | | | | | | | | |
| 6) ICC Footbridge | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ICC Footbridge | 115 | 840 | -66 | 3 | 52 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7) Flyover | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Flyover | 115 | 922 | -67 | 3 | 51 | 51 | 51 | 51 | 51 | 51 | 51 | 51 | 51 | 51 | 51 | 51 | 51 | 51 | 51 | 51 | 51 | 51 | 51 | 51 | 51 | | | | | | | | | | | | | | | |
| 8) East Concrete Batching Plant (Operation) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| East Concrete Batching Plant (Operation) | 115 | 215 | -55 | 3 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | | | | | | | | | | | | | | | |
| 9) Barging Point (BP) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BP4 | 120 | 805 | -66 | 3 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | | | | | | | | | | | | | | | |
| BP5 | 120 | 850 | -67 | 3 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | | | | | | | | | | | | | | | |
| BP6 | 120 | 1060 | -69 | 3 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | | | | | | | | | | | | | | | |
| BP7 | 120 | 1160 | -69 | 3 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | | | | | | | | | | | | | | | |
| 10) Modification of seawalls / construction of seawater outfalls | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Outfall of WKCD DCWS | 117 | 775 | -66 | 3 | 54 | | | | | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | | | | | | | | | | | | | | | |
| Outfall of Independent Cooling System for Freespace | 117 | 1325 | -70 | 3 | 50 | | | | | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | | | | | | | | | | | | | | | |
| 11) West Pier (Optional) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| West Pier (Optional) | 117 | 1475 | -71 | 3 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | | | | | | | | | | | | | | | |
| 12) South Pier (Optional) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| South Pier (Optional) | 117 | 845 | -67 | 3 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | | | | | | | | | | | | | | | |
| 13) Viewing Platform (Optional) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Viewing Platform (Optional) | 115 | 508 | -62 | 3 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | | | | | | | | | | | | | | | |
| Predicted Noise Level of this Project, dB (A) | | | | | | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | | | | | | | | | | | | | | | |
| Predicted Noise Level of Express Rail Link, dB(A)¹ | | | | | | 49 | 49 | 49 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Overall Cumulative Noise Level, dB(A) | | | | | | 79 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | 2015 | | 2016 | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | Min | Max | Min | Max | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | 75 | 76 | 76 | 76 | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | 2015 | | 2016 | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | Min | Max | Min | Max | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | 75 | 79 | 76 | 76 | | | | | | | | | | | | | | | | | | | | | | |

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.

Unmitigated 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) | 2015 | | | | | | | | | | | | 2016 | | |
|---|-------------------|--------------|-----------------------------|--------------------------|-----------------------|------|----|----|----|----|----|----|----|----|------|-----|------|------|--|--|
| | | | | | | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 1 | 2 | 3 | | | |
| 1) Zone 1 | | | | | | | | | | | | | | | | | | | | |
| Activity 5 - Superstructure | 116 | 74 | -45 | 3 | 74 | 74 | 74 | 74 | 74 | 74 | 74 | 74 | 74 | 74 | 74 | 74 | 74 | | | |
| 2) Zone 2 | | | | | | | | | | | | | | | | | | | | |
| Activity 3 - Excavation | | | | | | | | | | | | | | | | | | | | |
| Zone 2.1 | 117 | 676 | -65 | 3 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | | | |
| Zone 2.2 | 117 | 502 | -62 | 3 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | | | |
| Zone 2.3 | 116 | 343 | -59 | 3 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | | | |
| Zone 2.4 | 116 | 205 | -54 | 3 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | | | |
| Zone 2.5 | 116 | 195 | -54 | 3 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | | | |
| Zone 2.6 | 116 | 353 | -59 | 3 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | | | |
| Zone 2.7 | 117 | 517 | -62 | 3 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | | | |
| Zone 2.8 | 117 | 716 | -65 | 3 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | | | |
| Activity 4 - Basement and Underpass | | | | | | | | | | | | | | | | | | | | |
| Zone 2.1 | 115 | 676 | -65 | 3 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | | | |
| Zone 2.2 | 115 | 502 | -62 | 3 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | | | |
| Zone 2.3 | 114 | 343 | -59 | 3 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | | | |
| Zone 2.4 | 114 | 205 | -54 | 3 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | | | |
| Zone 2.5 | 114 | 195 | -54 | 3 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | | | |
| Zone 2.6 | 114 | 353 | -59 | 3 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | | | |
| Zone 2.7 | 115 | 517 | -62 | 3 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | | | |
| Zone 2.8 | 115 | 716 | -65 | 3 | 52 | 52 | 52 | 52 | 52 | 52 | 52 | 52 | 52 | 52 | 52 | 52 | 52 | | | |
| Activity 5 - Superstructure | | | | | | | | | | | | | | | | | | | | |
| Lyric Theatre | 124 | 811 | -66 | 3 | 61 | | | | | | | | | | | 61 | 61 | | | |
| CCP | 124 | 312 | -58 | 3 | 69 | | | | | | | | | | | 69 | 69 | | | |
| 3) Zone 3 | | | | | | | | | | | | | | | | | | | | |
| Activity 3 - Excavation | 122 | 917 | -67 | 3 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | | | | | | | | | |
| Activity 4 - Basement and Underpass | 120 | 917 | -67 | 3 | 56 | | | | | | | 56 | 56 | 56 | 56 | 56 | 56 | | | |
| Activity 5 - Superstructure | 118 | 855 | -67 | 3 | 55 | | | | | | | | | | | | 55 | | | |
| 4) Park Construction - Zone A | | | | | | | | | | | | | | | | | | | | |
| 118 | 1042 | -68 | 3 | 52 | 52 | | | | | | | | | | | | | | | |
| 5) Park Construction - Zone B | | | | | | | | | | | | | | | | | | | | |
| 118 | 178 | -53 | 3 | 68 | | 68 | 68 | 68 | 68 | 68 | 68 | 68 | 68 | 68 | 68 | 68 | 68 | | | |
| 6) ICC Footbridge | | | | | | | | | | | | | | | | | | | | |
| 115 | 827 | -66 | 3 | 52 | | | | | | | | | | | | | | | | |
| 7) Flyover | | | | | | | | | | | | | | | | | | | | |
| 115 | 914 | -67 | 3 | 51 | 51 | 51 | 51 | 51 | 51 | 51 | 51 | 51 | 51 | 51 | 51 | 51 | 51 | | | |
| 8) East Concrete Batching Plant (Operation) | | | | | | | | | | | | | | | | | | | | |
| 115 | 158 | -52 | 3 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | | | |
| 9) Barging Point (BP) | | | | | | | | | | | | | | | | | | | | |
| BP4 | 120 | 751 | -66 | 3 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | | | |
| BP5 | 120 | 799 | -66 | 3 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | | | |
| BP6 | 120 | 1001 | -68 | 3 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | | | |
| BP7 | 120 | 1093 | -69 | 3 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | | | |
| 10) Modification of seawalls / construction of seawater outfalls | | | | | | | | | | | | | | | | | | | | |
| Outfall of WKCD DCWS | 117 | 726 | -65 | 3 | 55 | | | | 55 | 55 | 55 | 55 | 55 | 55 | | | | | | |
| Outfall of Independent Cooling System for Freespace | 117 | 1251 | -70 | 3 | 50 | | | | 50 | 50 | 50 | 50 | 50 | 50 | | | | | | |
| 11) West Pier (Optional) | | | | | | | | | | | | | | | | | | | | |
| 117 | 1451 | -71 | 3 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | | | |
| 12) South Pier (Optional) | | | | | | | | | | | | | | | | | | | | |
| 117 | 786 | -66 | 3 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | | | |
| 13) Viewing Platform (Optional) | | | | | | | | | | | | | | | | | | | | |
| 115 | 422 | -61 | 3 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | | | |
| Predicted Noise Level of this Project, dB (A) | | | | | | 77 | 77 | 77 | 77 | 77 | 77 | 77 | 78 | 78 | 78 | 78 | 78 | | | |
| Predicted Noise Level of Express Rail Link, dB(A)¹ | | | | | | 56 | 56 | 56 | | | | | | | | | | | | |
| Overall Cumulative Noise Level, dB(A) | | | | | | 81 | 77 | 77 | 77 | 77 | 77 | 77 | 78 | 78 | 78 | 78 | 78 | | | |
| | | | | | | | | | | | | | | | 2015 | | 2016 | | | |
| | | | | | | | | | | | | | | | 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 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.

Unmitigated 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) | 2015 | | | | | | | | | | | | 2016 | | | | | | | | | | | | | | | | | | | | | | |
|---|-------------------|--------------|-----------------------------|--------------------------|-----------------------|------|----|----|----|----|----|----|----|----|-------------|------------|-------------|------------|----|----|----|----|----|----|----|----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| | | | | | | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 1 | 2 | 3 | | | | | | | | | | | | | | | | | | | | | | | |
| 1) Zone 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Activity 5 - Superstructure | 116 | 78 | -46 | 3 | 73 | 73 | 73 | 73 | 73 | 73 | 73 | 73 | 73 | 73 | 73 | 73 | 73 | 73 | 73 | 73 | 73 | 73 | 73 | 73 | 73 | | | | | | | | | | | | | | | |
| 2) Zone 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Activity 3 - Excavation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Zone 2.1 | 117 | 701 | -65 | 3 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | | | | | | | | | | | | | | | |
| Zone 2.2 | 117 | 527 | -62 | 3 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | | | | | | | | | | | | | | | |
| Zone 2.3 | 116 | 367 | -59 | 3 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | | | | | | | | | | | | | | | |
| Zone 2.4 | 116 | 214 | -55 | 3 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | | | | | | | | | | | | | | | |
| Zone 2.5 | 116 | 214 | -55 | 3 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | | | | | | | | | | | | | | | |
| Zone 2.6 | 116 | 377 | -60 | 3 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | | | | | | | | | | | | | | | |
| Zone 2.7 | 117 | 547 | -63 | 3 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | | | | | | | | | | | | | | | |
| Zone 2.8 | 117 | 736 | -65 | 3 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | | | | | | | | | | | | | | | |
| Activity 4 - Basement and Underpass | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Zone 2.1 | 115 | 701 | -65 | 3 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | | | | | | | | | | | | | | | |
| Zone 2.2 | 115 | 527 | -62 | 3 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | | | | | | | | | | | | | | | |
| Zone 2.3 | 114 | 367 | -59 | 3 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | | | | | | | | | | | | | | | |
| Zone 2.4 | 114 | 214 | -55 | 3 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | | | | | | | | | | | | | | | |
| Zone 2.5 | 114 | 214 | -55 | 3 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | | | | | | | | | | | | | | | |
| Zone 2.6 | 114 | 377 | -60 | 3 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | | | | | | | | | | | | | | | |
| Zone 2.7 | 115 | 547 | -63 | 3 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | | | | | | | | | | | | | | | |
| Zone 2.8 | 115 | 736 | -65 | 3 | 52 | 52 | 52 | 52 | 52 | 52 | 52 | 52 | 52 | 52 | 52 | 52 | 52 | 52 | 52 | 52 | 52 | 52 | 52 | 52 | 52 | | | | | | | | | | | | | | | |
| Activity 5 - Superstructure | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lyric Theatre | 124 | 841 | -66 | 3 | 61 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CCP | 124 | 342 | -59 | 3 | 69 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3) Zone 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Activity 3 - Excavation | 122 | 939 | -67 | 3 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | | | | | | | | | | | | | | | |
| Activity 4 - Basement and Underpass | 120 | 939 | -67 | 3 | 56 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Activity 5 - Superstructure | 118 | 875 | -67 | 3 | 55 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4) Park Construction - Zone A | 118 | 1068 | -69 | 3 | 52 | 52 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5) Park Construction - Zone B | 118 | 223 | -55 | 3 | 66 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6) ICC Footbridge | 115 | 846 | -67 | 3 | 52 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7) Flyover | 115 | 930 | -67 | 3 | 51 | 51 | 51 | 51 | 51 | 51 | 51 | 51 | 51 | 51 | 51 | 51 | 51 | 51 | 51 | 51 | 51 | 51 | 51 | 51 | | | | | | | | | | | | | | | | |
| 8) East Concrete Batching Plant (Operation) | 115 | 183 | -53 | 3 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | | | | | | | | | | | | | | | | |
| 9) Barging Point (BP) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BP4 | 120 | 781 | -66 | 3 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | | | | | | | | | | | | | | | | |
| BP5 | 120 | 831 | -66 | 3 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | | | | | | | | | | | | | | | | |
| BP6 | 120 | 1036 | -68 | 3 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | | | | | | | | | | | | | | | | |
| BP7 | 120 | 1131 | -69 | 3 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | | | | | | | | | | | | | | | | |
| 10) Modification of seawalls / construction of seawater outfalls | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Outfall of WKCD DCWS | 117 | 751 | -66 | 3 | 54 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Outfall of Independent Cooling System for Freespace | 117 | 1301 | -70 | 3 | 50 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11) West Pier (Optional) | 117 | 1471 | -71 | 3 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | | | | | | | | | | | | | | | | |
| 12) South Pier (Optional) | 117 | 816 | -66 | 3 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | | | | | | | | | | | | | | | | |
| 13) Viewing Platform (Optional) | 115 | 462 | -61 | 3 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | | | | | | | | | | | | | | | | |
| Predicted Noise Level of this Project, dB (A) | | | | | | 76 | 77 | 77 | 77 | 77 | 77 | 77 | 77 | 77 | 77 | 77 | 77 | 77 | 77 | 77 | 77 | 77 | 77 | 77 | 77 | | | | | | | | | | | | | | | |
| Predicted Noise Level of Express Rail Link, dB(A)¹ | | | | | | 56 | 56 | 56 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Overall Cumulative Noise Level, dB(A) | | | | | | 80 | 77 | 77 | 77 | 77 | 77 | 77 | 77 | 77 | 77 | 77 | 77 | 77 | 77 | 77 | 77 | 77 | 77 | 77 | 77 | 77 | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | 2015 | | 2016 | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | Min | Max | Min | Max | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | 76 | | 77 | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | 2015 | | 2016 | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | Min | Max | Min | Max | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | 77 | | 80 | | | | | | | | | | | | | | | | | | | | | | | |

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.

Unmitigated 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) | 2015 | | | | | | | | | | | | 2016 | | |
|---|-------------------|--------------|-----------------------------|--------------------------|-----------------------|------|----|----|----|----|----|----|----|----|------|-----|------|------|--|--|
| | | | | | | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 1 | 2 | 3 | | | |
| 1) Zone 1 | | | | | | | | | | | | | | | | | | | | |
| Activity 5 - Superstructure | 116 | 105 | -48 | 3 | 71 | 71 | 71 | 71 | 71 | 71 | 71 | 71 | 71 | 71 | 71 | 71 | 71 | | | |
| 2) Zone 2 | | | | | | | | | | | | | | | | | | | | |
| Activity 3 - Excavation | | | | | | | | | | | | | | | | | | | | |
| Zone 2.1 | 117 | 685 | -65 | 3 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | | | |
| Zone 2.2 | 117 | 505 | -62 | 3 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | | | |
| Zone 2.3 | 116 | 355 | -59 | 3 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | | | |
| Zone 2.4 | 116 | 205 | -54 | 3 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | | | |
| Zone 2.5 | 116 | 195 | -54 | 3 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | | | |
| Zone 2.6 | 116 | 350 | -59 | 3 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | | | |
| Zone 2.7 | 117 | 515 | -62 | 3 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | | | |
| Zone 2.8 | 117 | 720 | -65 | 3 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | | | |
| Activity 4 - Basement and Underpass | | | | | | | | | | | | | | | | | | | | |
| Zone 2.1 | 115 | 685 | -65 | 3 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | | | |
| Zone 2.2 | 115 | 505 | -62 | 3 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | | | |
| Zone 2.3 | 114 | 355 | -59 | 3 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | | | |
| Zone 2.4 | 114 | 205 | -54 | 3 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | | | |
| Zone 2.5 | 114 | 195 | -54 | 3 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | | | |
| Zone 2.6 | 114 | 350 | -59 | 3 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | | | |
| Zone 2.7 | 115 | 515 | -62 | 3 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | | | |
| Zone 2.8 | 115 | 720 | -65 | 3 | 52 | 52 | 52 | 52 | 52 | 52 | 52 | 52 | 52 | 52 | 52 | 52 | 52 | | | |
| Activity 5 - Superstructure | | | | | | | | | | | | | | | | | | | | |
| Lyric Theatre | 124 | 816 | -66 | 3 | 61 | | | | | | | | | | 61 | 61 | 61 | | | |
| CCP | 124 | 327 | -58 | 3 | 69 | | | | | | | | | | 69 | 69 | 69 | | | |
| 3) Zone 3 | | | | | | | | | | | | | | | | | | | | |
| Activity 3 - Excavation | | | | | | | | | | | | | | | | | | | | |
| Activity 4 - Basement and Underpass | 122 | 923 | -67 | 3 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | | | | | | | | | |
| Activity 5 - Superstructure | 118 | 863 | -67 | 3 | 56 | | | | | | | 56 | 56 | 56 | 56 | 56 | 56 | | | |
| Activity 5 - Superstructure | 118 | 1046 | -68 | 3 | 55 | | | | | | | | | | | | 55 | | | |
| 4) Park Construction - Zone A | 118 | 1046 | -68 | 3 | 52 | 52 | | | | | | | | | | | | | | |
| 5) Park Construction - Zone B | 118 | 150 | -51 | 3 | 69 | | 69 | 69 | 69 | 69 | 69 | 69 | 69 | 69 | 69 | 69 | 69 | | | |
| 6) ICC Footbridge | 115 | 843 | -67 | 3 | 52 | | | | | | | | | | | | | | | |
| 7) Flyover | 115 | 927 | -67 | 3 | 51 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | | | |
| 8) East Concrete Batching Plant (Operation) | 115 | 160 | -52 | 3 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | | | |
| 9) Barging Point (BP) | | | | | | | | | | | | | | | | | | | | |
| BP4 | 120 | 750 | -66 | 3 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | | | |
| BP5 | 120 | 795 | -66 | 3 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | | | |
| BP6 | 120 | 993 | -68 | 3 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | | | |
| BP7 | 120 | 1083 | -69 | 3 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | | | |
| 10) Modification of seawalls / construction of seawater outfalls | | | | | | | | | | | | | | | | | | | | |
| Outfall of WKCD DCWS | 117 | 720 | -65 | 3 | 55 | | | | 55 | 55 | 55 | 55 | 55 | 55 | | | | | | |
| Outfall of Independent Cooling System for Freespace | 117 | 1250 | -70 | 3 | 50 | | | | 50 | 50 | 50 | 50 | 50 | 50 | | | | | | |
| 11) West Pier (Optional) | 117 | 1455 | -71 | 3 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | | | |
| 12) South Pier (Optional) | 117 | 780 | -66 | 3 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | | | |
| 13) Viewing Platform (Optional) | 115 | 398 | -60 | 3 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | | | |
| Predicted Noise Level of this Project, dB (A) | | | | | | 76 | 77 | 77 | 77 | 77 | 77 | 77 | 77 | 78 | 78 | 77 | 77 | 78 | | |
| Predicted Noise Level of Express Rail Link, dB(A) ¹ | | | | | | | | | | | | | | | | | | | | |
| Overall Cumulative Noise Level, dB(A) | | | | | | 80 | 77 | 77 | 77 | 77 | 77 | 77 | 77 | 78 | 78 | 77 | 77 | 78 | | |
| | | | | | | | | | | | | | | | 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

- 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.

Unmitigated 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) | 2015 | | | | | | | | | | | | 2016 | | | | | | | | | | | | | | | | | | | | | | |
|---|-------------------|--------------|-----------------------------|--------------------------|-----------------------|------|----|----|----|----|----|----|----|----|-------------|-----|-------------|------|----|----|----|----|----|----|----|----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| | | | | | | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 1 | 2 | 3 | | | | | | | | | | | | | | | | | | | | | | | |
| 1) Zone 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Activity 5 - Superstructure | 116 | 82 | -46 | 3 | 73 | 73 | 73 | 73 | 73 | 73 | 73 | 73 | 73 | 73 | 73 | 73 | 73 | 73 | 73 | 73 | 73 | 73 | 73 | 73 | 73 | | | | | | | | | | | | | | | |
| 2) Zone 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Activity 3 - Excavation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Zone 2.1 | 117 | 580 | -63 | 3 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | | | | | | | | | | | | | | | |
| Zone 2.2 | 117 | 415 | -60 | 3 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | | | | | | | | | | | | | | | |
| Zone 2.3 | 116 | 256 | -56 | 3 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | | | | | | | | | | | | | | | |
| Zone 2.4 | 116 | 112 | -49 | 3 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | | | | | | | | | | | | | | | |
| Zone 2.5 | 116 | 97 | -48 | 3 | 71 | 71 | 71 | 71 | 71 | 71 | 71 | 71 | 71 | 71 | 71 | 71 | 71 | 71 | 71 | 71 | 71 | 71 | 71 | 71 | 71 | | | | | | | | | | | | | | | |
| Zone 2.6 | 116 | 251 | -56 | 3 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | | | | | | | | | | | | | | | |
| Zone 2.7 | 117 | 411 | -60 | 3 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | | | | | | | | | | | | | | | |
| Zone 2.8 | 117 | 610 | -64 | 3 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | | | | | | | | | | | | | | | |
| Activity 4 - Basement and Underpass | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Zone 2.1 | 115 | 580 | -63 | 3 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | | | | | | | | | | | | | | | |
| Zone 2.2 | 115 | 415 | -60 | 3 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | | | | | | | | | | | | | | | |
| Zone 2.3 | 114 | 256 | -56 | 3 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | | | | | | | | | | | | | | | |
| Zone 2.4 | 114 | 112 | -49 | 3 | 68 | 68 | 68 | 68 | 68 | 68 | 68 | 68 | 68 | 68 | 68 | 68 | 68 | 68 | 68 | 68 | 68 | 68 | 68 | 68 | 68 | | | | | | | | | | | | | | | |
| Zone 2.5 | 114 | 97 | -48 | 3 | 69 | 69 | 69 | 69 | 69 | 69 | 69 | 69 | 69 | 69 | 69 | 69 | 69 | 69 | 69 | 69 | 69 | 69 | 69 | 69 | 69 | | | | | | | | | | | | | | | |
| Zone 2.6 | 114 | 251 | -56 | 3 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | | | | | | | | | | | | | | | |
| Zone 2.7 | 115 | 411 | -60 | 3 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | | | | | | | | | | | | | | | |
| Zone 2.8 | 115 | 610 | -64 | 3 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | | | | | | | | | | | | | | | |
| Activity 5 - Superstructure | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lyric Theatre | 124 | 716 | -65 | 3 | 62 | | | | | | | | | | | | | | | | | 62 | 62 | 62 | 62 | | | | | | | | | | | | | | | |
| CCP | 124 | 233 | -55 | 3 | 72 | | | | | | | | | | | | | | | | | 72 | 72 | 72 | 72 | | | | | | | | | | | | | | | |
| 3) Zone 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Activity 3 - Excavation | 122 | 824 | -66 | 3 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | | | | | | | | | | | | | | | | |
| Activity 4 - Basement and Underpass | 120 | 824 | -66 | 3 | 57 | | | | | | | | | | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | | | | | | | | | | | | | | | | |
| Activity 5 - Superstructure | 118 | 761 | -66 | 3 | 56 | | | | | | | | | | | | | | | | | | | 56 | | | | | | | | | | | | | | | | |
| 4) Park Construction - Zone A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4) Park Construction - Zone B | 118 | 72 | -45 | 3 | 76 | | | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | | | | | | | | | | | | | | | | |
| 6) ICC Footbridge | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6) ICC Footbridge | 115 | 744 | -65 | 3 | 53 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7) Flyover | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7) Flyover | 115 | 828 | -66 | 3 | 52 | 52 | 52 | 52 | 52 | 52 | 52 | 52 | 52 | 52 | 52 | 52 | 52 | 52 | 52 | 52 | 52 | 52 | 52 | 52 | | | | | | | | | | | | | | | | |
| 8) East Concrete Batching Plant (Operation) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8) East Concrete Batching Plant (Operation) | 115 | 68 | -45 | 3 | 73 | 73 | 73 | 73 | 73 | 73 | 73 | 73 | 73 | 73 | 73 | 73 | 73 | 73 | 73 | 73 | 73 | 73 | 73 | 73 | | | | | | | | | | | | | | | | |
| 9) Barging Point (BP) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BP4 | 120 | 650 | -64 | 3 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | | | | | | | | | | | | | | | | |
| BP5 | 120 | 695 | -65 | 3 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | | | | | | | | | | | | | | | | |
| BP6 | 120 | 900 | -67 | 3 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | | | | | | | | | | | | | | | | |
| BP7 | 120 | 985 | -68 | 3 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | | | | | | | | | | | | | | | | |
| 10) Modification of seawalls / construction of seawater outfalls | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Outfall of WKCD DCWS | 117 | 625 | -64 | 3 | 56 | | | | | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | | | | | | | | | | | | | | | | | |
| Outfall of Independent Cooling System for Freespace | 117 | 1170 | -69 | 3 | 51 | | | | | 51 | 51 | 51 | 51 | 51 | 51 | 51 | 51 | 51 | 51 | 51 | 51 | 51 | 51 | | | | | | | | | | | | | | | | | |
| 11) West Pier (Optional) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11) West Pier (Optional) | 117 | 1350 | -71 | 3 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | | | | | | | | | | | | | | | | |
| 12) South Pier (Optional) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12) South Pier (Optional) | 117 | 680 | -65 | 3 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | | | | | | | | | | | | | | | | |
| 13) Viewing Platform (Optional) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13) Viewing Platform (Optional) | 115 | 291 | -57 | 3 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | | | | | | | | | | | | | | | | |
| Predicted Noise Level of this Project, dB (A) | | | | | | 80 | 81 | 81 | 81 | 81 | 81 | 81 | 81 | 81 | 81 | 81 | 81 | 81 | 81 | 81 | 81 | 81 | 81 | 81 | 81 | | | | | | | | | | | | | | | |
| Predicted Noise Level of Express Rail Link, dB(A)¹ | | | | | | 58 | 58 | 55 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Overall Cumulative Noise Level, dB(A) | | | | | | 84 | 81 | 81 | 81 | 81 | 81 | 81 | 81 | 81 | 81 | 81 | 81 | 81 | 81 | 81 | 81 | 81 | 81 | 81 | 81 | 81 | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | 2015 | | 2016 | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | Min | Max | Min | Max | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | 80 | 82 | 82 | 82 | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | 2015 | | 2016 | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | Min | Max | Min | Max | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | 81 | 84 | 82 | 82 | | | | | | | | | | | | | | | | | | | | | | |

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.

Unmitigated 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) | 2015 | | | | | | | | | | | | 2016 | | | | | | | | | | | | | | | | | | | | | |
|---|-------------------|--------------|-----------------------------|--------------------------|-----------------------|-----------|-----------|----|----|----|----|----|----|----|----|----|----|------|----|-------------|------------|-------------|------------|----|----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| | | | | | | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 1 | 2 | 3 | | | | | | | | | | | | | | | | | | | | | | |
| 1) Zone 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Activity 5 - Superstructure | 116 | 681 | -65 | 3 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | | | | | | | | | | | | | | | |
| 2) Zone 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Activity 3 - Excavation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Zone 2.1 | 117 | 829 | -66 | 3 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | | | | | | | | | | | | | | | |
| Zone 2.2 | 117 | 659 | -64 | 3 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | | | | | | | | | | | | | | | |
| Zone 2.3 | 116 | 499 | -62 | 3 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | | | | | | | | | | | | | | | |
| Zone 2.4 | 116 | 350 | -59 | 3 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | | | | | | | | | | | | | | | |
| Zone 2.5 | 116 | 345 | -59 | 3 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | | | | | | | | | | | | | | | |
| Zone 2.6 | 116 | 501 | -62 | 3 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | | | | | | | | | | | | | | | |
| Zone 2.7 | 117 | 672 | -65 | 3 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | | | | | | | | | | | | | | | |
| Zone 2.8 | 117 | 866 | -67 | 3 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | | | | | | | | | | | | | | | | |
| Activity 4 - Basement and Underpass | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Zone 2.1 | 115 | 828 | -66 | 3 | 51 | 51 | 51 | 51 | 51 | 51 | 51 | 51 | 51 | 51 | 51 | 51 | 51 | 51 | 51 | 51 | 51 | 51 | 51 | | | | | | | | | | | | | | | | |
| Zone 2.2 | 115 | 659 | -64 | 3 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | | | | | | | | | | | | | | | | |
| Zone 2.3 | 114 | 498 | -62 | 3 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | | | | | | | | | | | | | | | | |
| Zone 2.4 | 114 | 348 | -59 | 3 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | | | | | | | | | | | | | | | | |
| Zone 2.5 | 114 | 344 | -59 | 3 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | | | | | | | | | | | | | | | | |
| Zone 2.6 | 114 | 500 | -62 | 3 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | | | | | | | | | | | | | | | | |
| Zone 2.7 | 115 | 672 | -65 | 3 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | | | | | | | | | | | | | | | | |
| Zone 2.8 | 115 | 865 | -67 | 3 | 51 | 51 | 51 | 51 | 51 | 51 | 51 | 51 | 51 | 51 | 51 | 51 | 51 | 51 | 51 | 51 | 51 | 51 | 51 | | | | | | | | | | | | | | | | |
| Activity 5 - Superstructure | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lyric Theatre | 124 | 471 | -61 | 3 | 66 | | | | | | | | | | | | | | | | 66 | 66 | 66 | 66 | | | | | | | | | | | | | | | |
| CCP | 124 | 526 | -62 | 3 | 65 | | | | | | | | | | | | | | | | 65 | 65 | 65 | 65 | | | | | | | | | | | | | | | |
| 3) Zone 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Activity 3 - Excavation | 122 | 376 | -59 | 3 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | | | | | | | | | | | | | | | | |
| Activity 4 - Basement and Underpass | 120 | 376 | -59 | 3 | 64 | | | | | | | | | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | | | | | | | | | | | | | | | | |
| Activity 5 - Superstructure | 118 | 329 | -58 | 3 | 63 | | | | | | | | | | | | | | | | | | 63 | | | | | | | | | | | | | | | | |
| 4) Park Construction - Zone A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4) Park Construction - Zone A | 118 | 433 | -61 | 3 | 60 | | | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | | | | | | | | | | | | | | | | |
| 6) ICC Footbridge | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6) ICC Footbridge | 115 | 272 | -57 | 3 | 62 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7) Flyover | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7) Flyover | 115 | 317 | -58 | 3 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | | | | | | | | | | | | | | | | |
| 8) East Concrete Batching Plant (Operation) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8) East Concrete Batching Plant (Operation) | 115 | 703 | -65 | 3 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | | | | | | | | | | | | | | | | |
| 9) Barging Point (BP) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BP4 | 120 | 451 | -61 | 3 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | | | | | | | | | | | | | | | | |
| BP5 | 120 | 461 | -61 | 3 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | | | | | | | | | | | | | | | | |
| BP6 | 120 | 611 | -64 | 3 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | | | | | | | | | | | | | | | | |
| BP7 | 120 | 726 | -65 | 3 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | | | | | | | | | | | | | | | | |
| 10) Modification of seawalls / construction of seawater outfalls | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Outfall of WKCD DCWS | 117 | 561 | -63 | 3 | 57 | | | | | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | | | | | | | | | | | | | | | | |
| Outfall of Independent Cooling System for Freespace | 117 | 886 | -67 | 3 | 53 | | | | | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | | | | | | | | | | | | | | | | |
| 11) West Pier (Optional) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11) West Pier (Optional) | 117 | 826 | -66 | 3 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | | | | | | | | | | | | | | | | |
| 12) South Pier (Optional) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12) South Pier (Optional) | 117 | 476 | -62 | 3 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | | | | | | | | | | | | | | | | |
| 13) Viewing Platform (Optional) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13) Viewing Platform (Optional) | 115 | 561 | -63 | 3 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | | | | | | | | | | | | | | | | |
| Predicted Noise Level of this Project, dB (A) | | | | | | 73 | 73 | 73 | 73 | 73 | 74 | 73 | 74 | 74 | 74 | 74 | 74 | 74 | 74 | 74 | 74 | 74 | 74 | | | | | | | | | | | | | | | | |
| Predicted Noise Level of Express Rail Link, dB(A)¹ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Predicted Noise Level of Road Improvement Works in West Kowloon Reclamation, dB(A)² | | | | | | 73 | 73 | 70 | 67 | 56 | 56 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Overall Cumulative Noise Level, dB(A) | | | | | | 76 | 76 | 75 | 74 | 73 | 74 | 73 | 74 | 74 | 74 | 74 | 74 | 74 | 74 | 74 | 74 | 74 | 74 | 74 | 74 | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | 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

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