

**Appendix 4-7A Used Powered Mechanical Equipment (PME) under Unmitigated Scenario**

Equipment Name	Unmitigated	
	Identification Code	Sound Power Level (dB(A))
Generator, super silenced, 70dB(A) at 7m	CNP 103	95
Breaker, mini-robot mounted	Other	115
Excavator / Loader, wheeled / Tracked	CNP 081	112
Dump Truck, with grab, ≤ 38 tonne	Other	105
Lorry, ≤ 38 tonne	Other	105
Lorry with crane / grab, ≤ 38 tonne	Other	105
Crane, mobile	CNP 048	112
Bar bender & cutter	CNP 021	90
Poker, vibratory, hand held	CNP 170	113
Piling, large diameter bored, grab & chisel	CNP 164	115
Road roller	CNP 185	108
Concrete lorry mixer	CNP 044	109
Saw, chain, hand-held	CNP 202	114
Concrete pump, lorry mounted	CNP 047	109
Asphalt Paver	CNP 004	109
Air compressor, air flow ≤ 10m <sup>3</sup> /min	CNP 001	100

Remark: Other - PMEs listed in EPD's "Sound Power Levels of Other Commonly Used PMEs"

## Appendix 4-7B Plant Inventory (Unmitigated)

### Commencement of Works

Stage ID 1

#### 101 Mobilization

				Unmitigated			
	Equipment	No. of Items	On-time %	TM Ref. / other Ref. *	SWL/Item dB(A)	Noise Barrier Reduction, dB(A)	Total SWL dB(A)
1	Generator, super silenced, 70dB(A) at 7m	1	100%	CNP 103	95	0	95.0
2	Lorry, ≤ 38 tonne	1	30%	Other	105	0	99.8
<b>Total Sound Power Level, dB(A)</b>							<b>101.0</b>

#### 102 Site Preparation + Tree Felling

				Unmitigated			
	Equipment	No. of Items	On-time %	TM Ref. / other Ref. *	SWL/Item dB(A)	Noise Barrier Reduction, dB(A)	Total SWL dB(A)
1	Generator, super silenced, 70dB(A) at 7m	1	100%	CNP 103	95	0	95.0
2	Excavator / Loader, wheeled / Tracked	1	50%	CNP 081	112	0	109.0
3	Lorry with crane / grab, ≤ 38 tonne	1	50%	Other	105	0	102.0
4	Saw, chain, hand-held	1	30%	CNP 202	114	0	108.8
<b>Total Sound Power Level, dB(A)</b>							<b>112.4</b>

\*Note: Other: PMEs listed in EPD's "Sound Power Levels of Other Commonly PMEs"

## Appendix 4-7B Plant Inventory (Unmitigated)

### Bridge H [H1-H8 + 1 x Abutment]

Stage ID 2

#### 201 Bored Piles 1m dia

				Unmitigated			
	Equipment	No. of Items	On-time %	TM Ref. / other Ref. *	SWL/Item dB(A)	Noise Barrier Reduction, dB(A)	Total SWL dB(A)
A1-1	Generator, super silenced, 70dB(A) at 7m	1	100%	CNP 103	95	0	95.0
A1-2	Excavator / Loader, wheeled / Tracked	1	50%	CNP 081	112	0	109.0
A1-3	Dump Truck, with grab, ≤ 38 tonne	1	30%	Other	105	0	99.8
A1-4	Piling, large diameter bored, grab & chisel	1	50%	CNP 164	115	0	112.0
<i>Total Sound Power Level for Activity 1</i>							114.0
A2-1	Concrete lorry mixer	1	30%	CNP 044	109	0	103.8
<i>Total Sound Power Level for Activity 2</i>							103.8
<b>Max. Sound Power Level for Activity Groups, dB(A)</b>							<b>114.0</b>

#### 202 Pile Caps

				Unmitigated			
	Equipment	No. of Items	On-time %	TM Ref. / other Ref. *	SWL/Item dB(A)	Noise Barrier Reduction, dB(A)	Total SWL dB(A)
A1-1	Breaker, mini-robot mounted	1	30%	Other	115	0	109.8
A1-2	Excavator / Loader, wheeled / Tracked	1	50%	CNP 081	112	0	109.0
A1-2	Lorry, ≤ 38 tonne	1	30%	Other	105	0	99.8
A1-3	Air compressor, air flow ≤ 10m <sup>3</sup> /min	1	30%	CNP 001	100	0	94.8
<i>Total Sound Power Level for Activity 1</i>							112.7
A2-1	Bar bender & cutter	1	100%	CNP 021	90	0	90.0
<i>Total Sound Power Level for Activity 2</i>							90.0
A3-1	Poker, vibratory, hand held	1	70%	CNP 170	113	0	111.5
A3-2	Concrete lorry mixer	1	30%	CNP 044	109	0	103.8
<i>Total Sound Power Level for Activity 3</i>							112.1
<b>Max. Sound Power Level for Activity Groups, dB(A)</b>							<b>112.7</b>

#### 203 Columns (average 11.5m)

				Unmitigated			
	Equipment	No. of Items	On-time %	TM Ref. / other Ref. *	SWL/Item dB(A)	Noise Barrier Reduction, dB(A)	Total SWL dB(A)
1	Lorry, ≤ 38 tonne	1	30%	Other	105	0	99.8
2	Bar bender & cutter	1	100%	CNP 021	90	0	90.0
3	Poker, vibratory, hand held	1	70%	CNP 170	113	0	111.5
4	Concrete pump, lorry mounted	1	50%	CNP 047	109	0	106.0
<b>Total Sound Power Level, dB(A)</b>							<b>112.8</b>

## Appendix 4-7B Plant Inventory (Unmitigated)

204 UU diversion

				Unmitigated			
	Equipment	No. of Items	On-time %	TM Ref. / other Ref. *	SWL/Item dB(A)	Noise Barrier Reduction, dB(A)	Total SWL dB(A)
1	Breaker, mini-robot mounted	1	30%	Other	115	0	109.8
2	Excavator / Loader, wheeled / Tracked	1	50%	CNP 081	112	0	109.0
3	Dump Truck, with grab, ≤ 38 tonne	1	30%	Other	105	0	99.8
4	Air compressor, air flow ≤ 10m <sup>3</sup> /min	1	30%	CNP 001	100	0	94.8
<b>Total Sound Power Level, dB(A)</b>							<b>112.7</b>

\*Note: Other: PMEs listed in EPD's "Sound Power Levels of Other Commonly PMEs"

205 Abutment (125m long)

				Unmitigated			
	Equipment	No. of Items	On-time %	TM Ref. / other Ref. *	SWL/Item dB(A)	Barrier Reduction, dB(A)	Total SWL dB(A)
1	Lorry, ≤ 38 tonne	1	30%	Other	105	0	99.8
2	Bar bender & cutter	1	100%	CNP 021	90	0	90.0
3	Poker, vibratory, hand held	1	70%	CNP 170	113	0	111.5
4	Concrete lorry mixer	1	30%	CNP 044	109	0	103.8
<b>Total Sound Power Level, dB(A)</b>							<b>112.4</b>

206 Deck Spans (gen 40m)(including road drainage works)

				Unmitigated			
	Equipment	No. of Items	On-time %	TM Ref. / other Ref. *	SWL/Item dB(A)	Barrier Reduction, dB(A)	Total SWL dB(A)
1	Lorry, ≤ 38 tonne	1	30%	Other	105	0	99.8
2	Bar bender & cutter	1	100%	CNP 021	90	0	90.0
3	Poker, vibratory, hand held	1	70%	CNP 170	113	0	111.5
4	Concrete pump, lorry mounted	1	50%	CNP 047	109	0	106.0
<b>Total Sound Power Level, dB(A)</b>							<b>112.8</b>

207 Edge Barrier

				Unmitigated			
	Equipment	No. of Items	On-time %	TM Ref. / other Ref. *	SWL/Item dB(A)	Barrier Reduction, dB(A)	Total SWL dB(A)
1	Lorry with crane / grab, ≤ 38 tonne	1	50%	Other	105	0	102.0
<b>Total Sound Power Level, dB(A)</b>							<b>102.0</b>

## Appendix 4-7B Plant Inventory (Unmitigated)

210 Road Works and Installation of Road Lighting

				Unmitigated			
	Equipment	No. of Items	On-time %	TM Ref. / other Ref. *	SWL/Item dB(A)	Noise Barrier Reduction	Total SWL dB(A)
1	Breaker, mini-robot mounted	1	30%	Other	115	0	109.8
2	Lorry with crane / grab, ≤ 38 tonne	1	50%	Other	105	0	102.0
3	Road roller	1	50%	CNP 185	108	0	105.0
4	Asphalt Paver	1	70%	CNP 004	109	0	107.5
5	Air compressor, air flow ≤ 10m <sup>3</sup> /min	1	30%	CNP 001	100	0	94.8
<b>Total Sound Power Level, dB(A)</b>							<b>113.0</b>

\*Note: Other: PMEs listed in EPD's "Sound Power Levels of Other Commonly PMEs"

## Appendix 4-7B Plant Inventory (Unmitigated)

### Noise Barrier [H3-H8 + Abutment]

Stage ID 3

#### 303 Structural Steel Frame Erection

Unmitigated							
	Equipment	No. of Items	On-time %	TM Ref. / other Ref. *	SWL/Item dB(A)	Noise Barrier Reduction, dB(A)	Total SWL dB(A)
1	Generator, super silenced, 70dB(A) at 7m	1	100%	CNP 103	95	0	95.0
2	Lorry with crane / grab, ≤ 38 tonne	2	50%	Other	105	0	105.0
3	Crane, mobile	2	50%	CNP 048	112	0	112.0
<b>Total Sound Power Level, dB(A)</b>							<b>112.9</b>

#### 304 Noise Panel Installation

Unmitigated							
	Equipment	No. of Items	On-time %	TM Ref. / other Ref. *	SWL/Item dB(A)	Noise Barrier Reduction, dB(A)	Total SWL dB(A)
1	Crane, mobile	1	50%	CNP 048	112	0	109.0
<b>Total Sound Power Level, dB(A)</b>							<b>109.0</b>

#### 305 Finishing

Unmitigated							
	Equipment	No. of Items	On-time %	TM Ref. / other Ref. *	SWL/Item dB(A)	Noise Barrier Reduction, dB(A)	Total SWL dB(A)
1	Crane, mobile	1	50%	CNP 048	112	0	109.0
<b>Total Sound Power Level, dB(A)</b>							<b>109.0</b>

\*Note: Other: PMEs listed in EPD's "Sound Power Levels of Other Commonly PMEs"

## Appendix 4-7B Plant Inventory (Unmitigated)

Bridge G [G1-G6]

Stage ID 4

401 UU diversion

				Unmitigated			
	Equipment	No. of Items	On-time %	TM Ref. / other Ref. *	SWL/Item dB(A)	Noise Barrier Reduction, dB(A)	Total SWL dB(A)
1	Breaker, mini-robot mounted	1	30%	Other	115	0	109.8
2	Excavator / Loader, wheeled / Tracked	1	50%	CNP 081	112	0	109.0
3	Dump Truck, with grab, ≤ 38 tonne	1	30%	Other	105	0	99.8
4	Air compressor, air flow ≤ 10m <sup>3</sup> /min	1	30%	CNP 001	100	0	94.8
<b>Total Sound Power Level, dB(A)</b>							<b>112.7</b>

402 Bored Piles 1m dia

				Unmitigated			
	Equipment	No. of Items	On-time %	TM Ref. / other Ref. *	SWL/Item dB(A)	Noise Barrier Reduction, dB(A)	Total SWL dB(A)
A1-1	Generator, super silenced, 70dB(A) at 7m	1	100%	CNP 103	95	0	95.0
A1-2	Excavator / Loader, wheeled / Tracked	1	50%	CNP 081	112	0	109.0
A1-3	Dump Truck, with grab, ≤ 38 tonne	1	30%	Other	105	0	99.8
A1-4	Piling, large diameter bored, grab & chisel	1	50%	CNP 164	115	0	112.0
<i>Total Sound Power Level for Activity 1</i>							<i>114.0</i>
A2-1	Concrete lorry mixer	1	30%	CNP 044	109	0	103.8
<i>Total Sound Power Level for Activity 2</i>							<i>103.8</i>
<b>Max. Sound Power Level for Activity Groups, dB(A)</b>							<b>114.0</b>

403 Pile Caps

				Unmitigated			
	Equipment	No. of Items	On-time %	TM Ref. / other Ref. *	SWL/Item dB(A)	Noise Barrier Reduction, dB(A)	Total SWL dB(A)
A1-1	Breaker, mini-robot mounted	1	30%	Other	115	0	109.8
A1-2	Excavator / Loader, wheeled / Tracked	1	50%	CNP 081	112	0	109.0
A1-3	Lorry, ≤ 38 tonne	1	30%	Other	105	0	99.8
A1-4	Air compressor, air flow ≤ 10m <sup>3</sup> /min	1	30%	CNP 001	100	0	94.8
<i>Total Sound Power Level for Activity 1</i>							<i>112.7</i>
A2-1	Bar bender & cutter	1	100%	CNP 021	90	0	90.0
<i>Total Sound Power Level for Activity 2</i>							<i>90.0</i>
A3-1	Poker, vibratory, hand held	1	70%	CNP 170	113	0	111.5
A3-2	Concrete lorry mixer	1	30%	CNP 044	109	0	103.8
<i>Total Sound Power Level for Activity 3</i>							<i>112.1</i>
<b>Max. Sound Power Level for Activity Groups, dB(A)</b>							<b>112.7</b>

## Appendix 4-7B Plant Inventory (Unmitigated)

### 404 Columns (average 11m)

				Unmitigated			
	Equipment	No. of Items	On-time %	TM Ref. / other Ref. *	SWL/Item dB(A)	Noise Barrier Reduction, dB(A)	Total SWL dB(A)
1	Lorry, ≤ 38 tonne	1	30%	Other	105	0	99.8
2	Bar bender & cutter	1	100%	CNP 021	90	0	90.0
3	Poker, vibratory, hand held	1	70%	CNP 170	113	0	111.5
4	Concrete pump, lorry mounted	1	50%	CNP 047	109	0	106.0
<b>Total Sound Power Level, dB(A)</b>							<b>112.8</b>

\*Note: Other: PMEs listed in EPD's "Sound Power Levels of Other Commonly PMEs"

### 405 Deck Spans (gen 25m)

				Unmitigated			
	Equipment	No. of Items	On-time %	TM Ref. / other Ref. *	SWL/Item dB(A)	Noise Barrier Reduction, dB(A)	Total SWL dB(A)
1	Lorry, ≤ 38 tonne	1	30%	Other	105	0	99.8
2	Bar bender & cutter	1	100%	CNP 021	90	0	90.0
3	Poker, vibratory, hand held	1	70%	CNP 170	113	0	111.5
4	Concrete pump, lorry mounted	1	50%	CNP 047	109	0	106.0
<b>Total Sound Power Level, dB(A)</b>							<b>112.8</b>

### 406 Edge Barrier

				Unmitigated			
	Equipment	No. of Items	On-time %	TM Ref. / other Ref. *	SWL/Item dB(A)	Noise Barrier Reduction, dB(A)	Total SWL dB(A)
1	Lorry with crane / grab, ≤ 38 tonne	1	50%	Other	105	0	102.0
<b>Total Sound Power Level, dB(A)</b>							<b>102.0</b>

### 409 Road Works and Installation of Road Lighting

				Unmitigated			
	Equipment	No. of Items	On-time %	TM Ref. / other Ref. *	SWL/Item dB(A)	Noise Barrier Reduction	Total SWL dB(A)
1	Breaker, mini-robot mounted	1	30%	Other	115	0	109.8
2	Lorry with crane / grab, ≤ 38 tonne	1	50%	Other	105	0	102.0
3	Road roller	1	50%	CNP 185	108	0	105.0
4	Concrete lorry mixer	1	30%	CNP 044	109	0	103.8
5	Asphalt Paver	1	70%	CNP 004	109	0	107.5
6	Air compressor, air flow ≤ 10m <sup>3</sup> /min	1	30%	CNP 001	100	0	94.8
<b>Total Sound Power Level, dB(A)</b>							<b>113.5</b>

\*Note: Other: PMEs listed in EPD's "Sound Power Levels of Other Commonly PMEs"



## Appendix 4-7B Plant Inventory (Unmitigated)

### Demolition of Existing Footbridge [1x main span + 2x staircase]

Stage ID 5

#### 502 Breaking up & Removal of Columns

				Unmitigated			
	Equipment	No. of Items	On-time %	TM Ref. / other Ref. *	SWL/Item dB(A)	Noise Barrier Reduction, dB(A)	Total SWL dB(A)
1	Generator, super silenced, 70dB(A) at 7m	1	100%	CNP 103	95	0	95.0
2	Breaker, mini-robot mounted	1	30%	Other	115	0	109.8
3	Dump Truck, with grab, ≤ 38 tonne	1	30%	Other	105	0	99.8
4	Air compressor, air flow ≤ 10m <sup>3</sup> /min	1	30%	CNP 001	100	0	94.8
<b>Total Sound Power Level, dB(A)</b>							<b>110.4</b>

#### 503 Breaking up & Removal of Staircases

				Unmitigated			
	Equipment	No. of Items	On-time %	TM Ref. / other Ref. *	SWL/Item dB(A)	Noise Barrier Reduction, dB(A)	Total SWL dB(A)
1	Generator, super silenced, 70dB(A) at 7m	1	100%	CNP 103	95	0	95.0
2	Breaker, mini-robot mounted	1	30%	Other	115	0	109.8
3	Dump Truck, with grab, ≤ 38 tonne	1	30%	Other	105	0	99.8
4	Air compressor, air flow ≤ 10m <sup>3</sup> /min	1	30%	CNP 001	100	0	94.8
<b>Total Sound Power Level, dB(A)</b>							<b>110.4</b>

#### 504 Breaking up & Removal of Pile Caps

				Unmitigated			
	Equipment	No. of Items	On-time %	TM Ref. / other Ref. *	SWL/Item dB(A)	Noise Barrier Reduction, dB(A)	Total SWL dB(A)
1	Generator, super silenced, 70dB(A) at 7m	1	100%	CNP 103	95	0	95.0
2	Breaker, mini-robot mounted	1	30%	Other	115	0	109.8
3	Excavator / Loader, wheeled / Tracked	1	50%	CNP 081	112	0	109.0
4	Dump Truck, with grab, ≤ 38 tonne	1	30%	Other	105	0	99.8
5	Air compressor, air flow ≤ 10m <sup>3</sup> /min	1	30%	CNP 001	100	0	94.8
<b>Total Sound Power Level, dB(A)</b>							<b>112.8</b>

\*Note: Other: PMEs listed in EPD's "Sound Power Levels of Other Commonly PMEs"

## Appendix 4-7B Plant Inventory (Unmitigated)

### Reprovision of Footbridge [2x main span + 2x staircase + 2x lift]

Stage ID 6

#### 601 Bored Piles 1m dia

				Unmitigated			
	Equipment	No. of Items	On-time %	TM Ref. / other Ref. *	SWL/Item dB(A)	Noise Barrier Reduction, dB(A)	Total SWL dB(A)
A1-1	Generator, super silenced, 70dB(A) at 7m	1	100%	CNP 103	95	0	95.0
A1-2	Excavator / Loader, wheeled / Tracked	1	50%	CNP 081	112	0	109.0
A1-3	Dump Truck, with grab, ≤ 38 tonne	1	30%	Other	105	0	99.8
A1-4	Piling, large diameter bored, grab & chisel	1	50%	CNP 164	115	0	112.0
<i>Total Sound Power Level for Activity 1</i>							<b>114.0</b>
A2-1	Concrete lorry mixer	1	30%	CNP 044	109	0	103.8
<i>Total Sound Power Level for Activity 2</i>							<b>103.8</b>
<b>Max. Sound Power Level for Activity Groups, dB(A)</b>							<b>114.0</b>

#### 602 Pile Caps

				Unmitigated			
	Equipment	No. of Items	On-time %	TM Ref. / other Ref. *	SWL/Item dB(A)	Noise Barrier Reduction, dB(A)	Total SWL dB(A)
A1-1	Breaker, mini-robot mounted	1	30%	Other	115	0	109.8
A1-2	Excavator / Loader, wheeled / Tracked	1	50%	CNP 081	112	0	109.0
A1-3	Lorry, ≤ 38 tonne	1	30%	Other	105	0	99.8
A1-4	Air compressor, air flow ≤ 10m <sup>3</sup> /min	1	30%	CNP 001	100	0	94.8
<i>Total Sound Power Level for Activity 1</i>							<b>112.7</b>
A2-1	Bar bender & cutter	1	100%	CNP 021	90	0	90.0
<i>Total Sound Power Level for Activity 2</i>							<b>90.0</b>
A3-1	Poker, vibratory, hand held	1	70%	CNP 170	113	0	111.5
A3-2	Concrete lorry mixer	1	30%	CNP 044	109	0	103.8
<i>Total Sound Power Level for Activity 3</i>							<b>112.1</b>
<b>Max. Sound Power Level for Activity Groups, dB(A)</b>							<b>112.7</b>

#### 603 Central Column

				Unmitigated			
	Equipment	No. of Items	On-time %	TM Ref. / other Ref. *	SWL/Item dB(A)	Noise Barrier Reduction, dB(A)	Total SWL dB(A)
1	Lorry, ≤ 38 tonne	1	30%	Other	105	0	99.8
2	Bar bender & cutter	1	100%	CNP 021	90	0	90.0
3	Poker, vibratory, hand held	1	70%	CNP 170	113	0	111.5
4	Concrete pump, lorry mounted	1	50%	CNP 047	109	0	106.0
<b>Total Sound Power Level, dB(A)</b>							<b>112.8</b>

## Appendix 4-7B Plant Inventory (Unmitigated)

### 604 Staircases

				Unmitigated			
	Equipment	No. of Items	On-time %	TM Ref. / other Ref. *	SWL/Item dB(A)	Noise Barrier Reduction, dB(A)	Total SWL dB(A)
1	Lorry, ≤ 38 tonne	1	30%	Other	105	0	99.8
2	Bar bender & cutter	1	100%	CNP 021	90	0	90.0
3	Poker, vibratory, hand held	1	70%	CNP 170	113	0	111.5
4	Concrete lorry mixer	1	30%	CNP 044	109	0	103.8
<b>Total Sound Power Level, dB(A)</b>							<b>112.4</b>

\*Note: Other: PMEs listed in EPD's "Sound Power Levels of Other Commonly PMEs"

### 607 Lift Tower Wall

				Unmitigated			
	Equipment	No. of Items	On-time %	TM Ref. / other Ref. *	SWL/Item dB(A)	Noise Barrier Reduction, dB(A)	Total SWL dB(A)
1	Poker, vibratory, hand held	1	70%	CNP 170	113	0	111.5
2	Concrete lorry mixer	1	30%	CNP 044	109	0	103.8
<b>Total Sound Power Level, dB(A)</b>							<b>112.1</b>

### 608 Lift Frame Erection

				Unmitigated			
	Equipment	No. of Items	On-time %	TM Ref. / other Ref. *	SWL/Item dB(A)	Noise Barrier Reduction, dB(A)	Total SWL dB(A)
1	Generator, super silenced, 70dB(A) at 7m	1	100%	CNP 103	95	0	95.0
2	Lorry with crane / grab, ≤ 38 tonne	2	50%	Other	105	0	105.0
3	Crane, mobile	2	50%	CNP 048	112	0	112.0
<b>Total Sound Power Level, dB(A)</b>							<b>112.9</b>

### 609 Window Panel Installation

				Unmitigated			
	Equipment	No. of Items	On-time %	TM Ref. / other Ref. *	SWL/Item dB(A)	Noise Barrier Reduction	Total SWL dB(A)
1	Crane, mobile	1	50%	CNP 048	112	0	109.0
<b>Total Sound Power Level, dB(A)</b>							<b>109.0</b>

### 615 E&M Installation (including lift)

				Unmitigated			
	Equipment	No. of Items	On-time %	TM Ref. / other Ref. *	SWL/Item dB(A)	Noise Barrier Reduction, dB(A)	Total SWL dB(A)
1	Generator, super silenced, 70dB(A) at 7m	1	100%	CNP 103	95	0	95.0
<b>Total Sound Power Level, dB(A)</b>							<b>95.0</b>

\*Note: Other: PMEs listed in EPD's "Sound Power Levels of Other Commonly PMEs"

## Appendix 4-7B Plant Inventory (Unmitigated)

### Relocation / modification of existing bus lay-by

Stage ID 7

701 Relocation/modification of existing bus lay-by

				Unmitigated			
	Equipment	No. of Items	On-time %	TM Ref. / other Ref. *	SWL/Item dB(A)	Noise Barrier Reduction, dB(A)	Total SWL dB(A)
1	Generator, super silenced, 70dB(A) at 7m	1	100%	CNP 103	95	0	95.0
2	Lorry with crane / grab, ≤ 38 tonne	1	50%	Other	105	0	102.0
3	Concrete lorry mixer	1	30%	CNP 044	109	0	103.8
<b>Total Sound Power Level, dB(A)</b>							<b>106.3</b>

\*Note: Other: PME's listed in EPD's "Sound Power Levels of Other Commonly PME's"

## Appendix 4-7B Plant Inventory (Unmitigated)

### Modification of Kwai Chung Road (outside Fung King House)

Stage ID 8

801 Modification of Kwai Chung Road (outside Fung King House)

				Unmitigated			
	Equipment	No. of Items	On-time %	TM Ref. / other Ref. *	SWL/Item dB(A)	Noise Barrier Reduction, dB(A)	Total SWL dB(A)
1	Breaker, mini-robot mounted	1	30%	Other	115	0	109.8
2	Lorry with crane / grab, ≤ 38 tonne	1	50%	Other	105	0	102.0
3	Road roller	1	50%	CNP 185	108	0	105.0
4	Concrete lorry mixer	1	30%	CNP 044	109	0	103.8
5	Asphalt Paver	1	70%	CNP 004	109	0	<b>107.5</b>
6	Air compressor, air flow ≤ 10m <sup>3</sup> /min	1	30%	CNP 001	100	0	94.8
<b>Total Sound Power Level, dB(A)</b>							<b>113.5</b>

\*Note: Other: PMEs listed in EPD's "Sound Power Levels of Other Commonly PMEs"

## Appendix 4-7B Plant Inventory (Unmitigated)

### Completion of Works

Stage ID 9

#### 901 Ground Level Works Finalization

				Unmitigated			
	Equipment	No. of Items	On-time %	TM Ref. / other Ref. *	SWL/Item dB(A)	Noise Barrier Reduction, dB(A)	Total SWL dB(A)
1	Lorry with crane / grab, ≤ 38 tonne	1	50%	Other	105	0	102.0
2	Poker, vibratory, hand held	1	70%	CNP 170	113	0	111.5
3	Concrete lorry mixer	1	30%	CNP 044	109	0	103.8
<b>Total Sound Power Level, dB(A)</b>							<b>112.5</b>

#### 902 Tree Planting

				Unmitigated			
	Equipment	No. of Items	On-time %	TM Ref. / other Ref. *	SWL/Item dB(A)	Noise Barrier Reduction, dB(A)	Total SWL dB(A)
1	Excavator / Loader, wheeled / Tracked	1	50%	CNP 081	112	0	109.0
2	Dump Truck, with grab, ≤ 38 tonne	1	30%	Other	105	0	99.8
<b>Total Sound Power Level, dB(A)</b>							<b>109.5</b>

Appendix 4-7C Distances and Sight Line Corrections

Distances calculations and sight line (barrier) correction

AP ID	Description	NSR																													
		Notional Distance (Horizontal), m						Vertical Distance, m						Slant Distance, m						Distance Correction, dB(A)						Sight Line Correction, dB(A)					
		Works Area						Works Area (elevated road)						Works Area						Works Area						Works Area					
A	B	C	D	E	F	A	B	C	D	E	F	A	B	C	D	E	F	A	B	C	D	E	F	A	B	C	D	E	F		
202	Lingnam Dr. Chung Wing Kong Memorial Secondary School	184	118	134	251	170	210	5	5	4	2	5	6	184	118	134	251	170	210	53.3	49.4	50.5	56.0	52.6	54.4	0	0	0	0	0	0
303	Lai King Catholic Secondary School	112	37	39	155	81	142	5	5	4	2	5	6	112	38	40	155	81	142	49.0	39.5	39.9	51.8	46.2	51.0	0	0	0	0	0	0
304	Lai King Catholic Secondary School	124	43	34	139	69	142	5	5	4	2	5	6	124	43	34	139	69	142	49.9	40.7	38.6	50.8	44.8	51.1	0	0	0	0	0	0
401	Ha Kwai Chung Polyclinic and Special Services Centre	237	157	158	261	199	262	15	24	24	21	14	14	237	159	160	262	199	262	55.5	52.0	52.0	56.4	54.0	56.4	0	0	0	0	0	0
404	Ha Kwai Chung Polyclinic and Special Services Centre	223	148	128	205	169	251	15	24	24	21	14	14	223	149	128	206	169	252	54.9	51.5	50.2	54.3	52.6	56.0	0	0	0	0	0	0
501	Fung King House	185	90	34	60	62	155	5	14	14	11	4	4	185	91	36	61	62	155	53.3	47.2	39.2	43.7	43.9	51.8	0	0	0	0	0	0
505	Fung King House	260	162	105	33	122	250	5	14	14	11	4	4	260	162	106	35	122	250	56.3	52.2	48.5	38.9	49.7	55.9	0	0	0	0	0	0
509	Fung King House	331	232	177	46	189	318	5	14	14	11	4	4	331	233	177	47	189	318	58.4	55.3	52.9	41.4	53.5	58.0	0	0	0	0	0	0
701	Ming King House	375	277	213	44	229	359	17	27	26	24	16	16	376	278	215	50	229	360	59.5	56.9	54.6	41.9	55.2	59.1	0	0	0	0	0	0
801	Yat King House	349	251	200	89	214	341	17	27	26	24	16	16	350	252	202	92	215	342	58.9	56.0	54.1	47.3	54.6	58.7	0	0	0	0	0	0
901	HKEAA-Lai King Assessment Centre	403	350	245	65	256	387	23	32	32	29	22	22	404	352	247	71	257	387	60.1	58.9	55.8	45.0	56.2	59.7	0	0	0	0	0	0
902	HKEAA-Lai King Assessment Centre	425	328	266	83	278	409	23	32	32	29	22	22	426	329	268	88	279	409	60.6	58.3	56.5	46.9	56.9	60.2	0	0	0	0	0	0
1002	Yin Lai Court - Yin Kwong House (Block A)	474	378	323	149	332	461	25	34	34	31	24	24	475	377	325	152	333	462	61.5	59.5	58.2	51.6	58.4	61.3	0	0	0	0	0	0
1102	Yin Lai Court - Yin Tak House (Block B)	506	407	355	175	362	492	25	34	34	31	24	24	506	409	356	177	363	493	62.1	60.2	59.0	53.0	59.2	61.8	0	0	0	0	0	0

Overall correction

AP ID	Description	NSR						Correction, dB(A)					
		A	B	C	D	E	F	A	B	C	D	E	F
202	Lingnam Dr. Chung Wing Kong Memorial Secondary School	53.3	49.4	50.5	56.0	52.6	54.4	53.3	49.4	50.5	56.0	52.6	54.4
303	Lai King Catholic Secondary School	49.0	39.5	39.9	51.8	46.2	51.0	49.0	39.5	39.9	51.8	46.2	51.0
304	Lai King Catholic Secondary School	49.9	40.7	38.6	50.8	44.8	51.1	49.9	40.7	38.6	50.8	44.8	51.1
401	Ha Kwai Chung Polyclinic and Special Services Centre	55.5	52.0	52.0	56.4	54.0	56.4	55.5	52.0	52.0	56.4	54.0	56.4
404	Ha Kwai Chung Polyclinic and Special Services Centre	54.9	51.5	50.2	54.3	52.6	56.0	54.9	51.5	50.2	54.3	52.6	56.0
501	Fung King House	53.3	47.2	39.2	43.7	43.9	51.8	53.3	47.2	39.2	43.7	43.9	51.8
505	Fung King House	56.3	52.2	48.5	38.9	49.7	55.9	56.3	52.2	48.5	38.9	49.7	55.9
509	Fung King House	58.4	55.3	52.9	41.4	53.5	58.0	58.4	55.3	52.9	41.4	53.5	58.0
701	Ming King House	59.5	56.9	54.6	41.9	55.2	59.1	59.5	56.9	54.6	41.9	55.2	59.1
801	Yat King House	58.9	56.0	54.1	47.3	54.6	58.7	58.9	56.0	54.1	47.3	54.6	58.7
901	HKEAA-Lai King Assessment Centre	60.1	58.9	55.8	45.0	56.2	59.7	60.1	58.9	55.8	45.0	56.2	59.7
902	HKEAA-Lai King Assessment Centre	60.6	58.3	56.5	46.9	56.9	60.2	60.6	58.3	56.5	46.9	56.9	60.2
1002	Yin Lai Court - Yin Kwong House (Block A)	61.5	59.5	58.2	51.6	58.4	61.3	61.5	59.5	58.2	51.6	58.4	61.3
1102	Yin Lai Court - Yin Tak House (Block B)	62.1	60.2	59.0	53.0	59.2	61.8	62.1	60.2	59.0	53.0	59.2	61.8













Appendix 4-7D Detailed Construction Noise Calculations (Unmitigated)

AP Standard	304	Lai King Catholic Secondary School	Monthly Construction Noise Level, dB(A)																																																	
			2018						2019						2020						2021																															
			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug																		
Works Area	Task ID	Task Description	SWL, dB(A)	Distance, m	Correction, dB(A)	CNL, dB(A)																																														
D	901	Ground Level Works Finalization	113	139	51	62																																														
	902	Tree Planting	109	139	51	59																																														
E	101	Mobilization	101	69	45	56																																														
	102	Site Preparation + Tree Felling	112	69	45	68																																														
E	201	Bored Piles 1m dia	114	69	45	69																																														
	202	Pile Caps	113	69	45	68																																														
	203	Columns (average 11.5m)	113	69	45	68																																														
	204	UU diversion	113	69	45	68																																														
E	205	Abutment (125m long)	112	69	45	66																																														
	206	Deck Spans (gen 40m)(including road drainage works)	113	69	45	68																																														
	207	Edge Barrier	102	69	45	57																																														
	210	Road Works and Installation of Road Lighting	113	69	45	68																																														
E	303	Structural Steel Frame Erection	113	69	45	68																																														
	304	Noise Panel Installation	109	69	45	64																																														
	305	Finishing	109	69	45	64																																														
	502	Breaking up & Removal of Columns	110	69	45	66																																														
E	503	Breaking up & Removal of Staircases	110	69	45	66																																														
	504	Breaking up & Removal of Pile Caps	113	69	45	68																																														
E	701	Relocation/modification of existing bus lay-by	106	69	45	62																																														
	901	Ground Level Works Finalization	113	69	45	68																																														
E	902	Tree Planting	109	69	45	65																																														
	101	Mobilization	101	142	51	50																																														
F	102	Site Preparation + Tree Felling	112	142	51	61																																														
	201	Bored Piles 1m dia	114	142	51	63																																														
F	202	Pile Caps	113	142	51	62																																														
	203	Columns (average 11.5m)	113	142	51	62																																														
	204	UU diversion	113	142	51	62																																														
	205	Abutment (125m long)	112	142	51	61																																														
F	206	Deck Spans (gen 40m)(including road drainage works)	113	142	51	62																																														
	207	Edge Barrier	102	142	51	51																																														
F	210	Road Works and Installation of Road Lighting	113	142	51	62																																														
	303	Structural Steel Frame Erection	113	142	51	62																																														
F	304	Noise Panel Installation	109	142	51	58																																														
	305	Finishing	109	142	51	58																																														
F	901	Ground Level Works Finalization	113	142	51	61																																														
	902	Tree Planting	109	142	51	58																																														
Overall	Overall (CNL w/o façade effect), dB(A)						66	66	73	75	76	74	74	74	73	73	73	72	74	77	73	72	74	75	73	66	68	72	70	68	69	69	71	71	72	72	70	62	62	63	70	66	66	65	67	73	69	76	72			
	Façade effect, dB(A)						3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	During normal school time, overall (CNL w/ façade effect), dB(A)						69	69	76	78	79	77	77	77	76	76	76	75	77	80	76	75	77	78	76	78	76	69	71	75	73	71	72	72	74	74	74	75	75	73	65	66	73	68	69	68	70	76	72	79	75	
	During examination time, overall (CNL w/ façade effect), dB(A) *						69	69	76	78	79	77	77	77	76	76	76	75	77	80	76	75	77	78	76	78	76	69	71	75	73	71	72	72	74	74	74	75	75	73	65	66	73	68	69	68	70	76	72	79	75	

Remark: \* showing only examination months Dec-Jan, Mar-Jul, with exceedances highlighted

\*\* calculation table above only show tasks for which there are PMEs in use during the day-time





Appendix 4-7D Detailed Construction Noise Calculations (Unmitigated)

AP Standard	404	Ha Kwai Chung Polytechnic and Special Services Centre	70	Monthly Construction Noise Level, dB(A)																		
				2021																		
				Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec							
Works Area	Task ID	Task Description	SWL, dB(A)	Distance, m	Correction, dB(A)	2018	2019	2020	2021	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
A	101	Mobilization	101	223	55	46																
	102	Site Preparation + Tree Felling	112	223	55	57																
	401	UU diversion	113	223	55	56																
	402	Bored Piles 1m dia	114	223	55	59	58	58														
	403	Pile Caps	113	223	55	59	58	58														
	404	Columns (average 11m)	113	223	55	58	58	58														
	405	Deck Spans (gen 25m)	113	223	55	58	58	58														
	406	Edge Barrier	102	223	55	47																
	409	Road Works and Installation of Road Lighting	114	223	55	59																
	901	Ground Level Works Finalization	113	223	55	58																
B	101	Mobilization	101	149	51	50	50	50														
	102	Site Preparation + Tree Felling	112	149	51	61	61															
	601	Bored Piles 1m dia	114	149	51	63	63	63														
	602	Pile Caps	113	149	51	61	61	61														
	603	Central Column	113	149	51	61	61	61														
	604	Staircases	112	149	51	61	61	61														
	607	Lift Tower Wall	112	149	51	61	61	61														
	608	Lift Frame Erection	113	149	51	61	61	61														
	609	Window Panel Installation	109	149	51	56																
	615	E&M Installation (including lift)	95	149	51	44																
B	901	Ground Level Works Finalization	113	149	51	61																
	902	Tree Planting	109	149	51	58																
	101	Mobilization	101	128	50	51	51	51														
	102	Site Preparation + Tree Felling	112	128	50	62	62															
	601	Bored Piles 1m dia	114	128	50	64	64															
	602	Pile Caps	113	128	50	63	63															
	603	Central Column	113	128	50	63	63															
	604	Staircases	112	128	50	62	62	62														
	607	Lift Tower Wall	112	128	50	62	62	62														
	608	Lift Frame Erection	113	128	50	63	63	63														
C	609	Window Panel Installation	109	128	50	59																
	615	E&M Installation (including lift)	95	128	50	45																
	901	Ground Level Works Finalization	113	128	50	62																
	902	Tree Planting	109	128	50	59																
	101	Mobilization	101	206	54	47	47	47														
	102	Site Preparation + Tree Felling	112	206	54	58																
	201	Bored Piles 1m dia	114	206	54	60	60															
	202	Pile Caps	113	206	54	59	59															
	203	Columns (average 11.5m)	113	206	54	59	59															
	204	UU diversion	113	206	54	58	58	58														
D	205	Abutment (125m long)	112	206	54	58	58	58														
	206	Deck Spans (gen 40m) (including road drainage works)	113	206	54	59	59	59														
	207	Edge Barrier	102	206	54	48																
	210	Road Works and Installation of Road Lighting	113	206	54	59																
	303	Structural Steel Frame Erection	113	206	54	59																
	304	Noise Panel Installation	109	206	54	55																
	305	Finishing	109	206	54	55																
	502	Breaking up & Removal of Columns	110	206	54	56																
	503	Breaking up & Removal of Staircases	110	206	54	56																
	504	Breaking up & Removal of Pile Caps	113	206	54	59																
D	701	Relocation/modification of existing bus lay-by	106	206	54	52																
	801	Modification of Kwai Chung Road (outside Fung King Hous	114	206	54	59																

Unmitigated \*\*





Appendix 4-7D Detailed Construction Noise Calculations (Unmitigated)

AP Standard		501 Fung King House		Monthly Construction Noise Level, dB(A)													
Works Area	Task ID	Task Description	SWL, dB(A)	Distance, m	Correction, dB(A)	Year											
						2018			2019			2020			2021		
						Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
A	101	Mobilization	101	185	53	48											
	102	Site Preparation + Tree Felling	112	185	53	59	59	59									
	401	UU diversion	113	185	53	59	59	59									
	402	Bored Piles 1m dia	114	185	53	61	61										
A	403	Pile Caps	113	185	53	59	59	59									
	404	Columns (average 11m)	113	185	53	59	59	59									
	405	Deck Spans (gen 25m)	113	185	53	59	59	59	59	59	59	59	59	59	59	59	59
	406	Edge Barrier	102	185	53	49	49	49	49	49	49	49	49	49	49	49	49
A	409	Road Works and Installation of Road Lighting	114	185	53	60	60	60	60	60	60	60	60	60	60	60	60
	901	Ground Level Works Finalization	113	185	53	59	59	59	59	59	59	59	59	59	59	59	59
B	902	Tree Planting	109	185	53	56	56	56	56	56	56	56	56	56	56	56	56
	101	Mobilization	101	91	47	54	54	54									
B	102	Site Preparation + Tree Felling	112	91	47	65	65										
	601	Bored Piles 1m dia	114	91	47	67	67										
	602	Pile Caps	113	91	47	66	66	66	66								
	603	Central Column	113	91	47	66	66	66									
B	604	Staircases	112	91	47	65	65	65	65								
	607	Lift Tower Wall	112	91	47	65	65	65	65								
	608	Lift Frame Erection	113	91	47	66	66	66	66								
	609	Window Panel Installation	109	91	47	62	62	62	62	62	62	62	62	62	62	62	62
B	615	E&M Installation (including lift)	95	91	47	48	48	48	48	48	48	48	48	48	48	48	48
	901	Ground Level Works Finalization	113	91	47	65	65	65	65	65	65	65	65	65	65	65	65
C	902	Tree Planting	109	91	47	62	62	62	62	62	62	62	62	62	62	62	62
	101	Mobilization	101	36	39	62	62	62	62	62	62	62	62	62	62	62	62
C	102	Site Preparation + Tree Felling	112	36	39	73	73	73	73	73	73	73	73	73	73	73	73
	601	Bored Piles 1m dia	114	36	39	75	75	75	75	75	75	75	75	75	75	75	75
	602	Pile Caps	113	36	39	74	74	74	74	74	74	74	74	74	74	74	74
	603	Central Column	113	36	39	74	74	74	74	74	74	74	74	74	74	74	74
C	604	Staircases	112	36	39	73	73	73	73	73	73	73	73	73	73	73	73
	607	Lift Tower Wall	112	36	39	73	73	73	73	73	73	73	73	73	73	73	73
	608	Lift Frame Erection	113	36	39	74	74	74	74	74	74	74	74	74	74	74	74
	609	Window Panel Installation	109	36	39	70	70	70	70	70	70	70	70	70	70	70	70
C	615	E&M Installation (including lift)	95	36	39	56	56	56	56	56	56	56	56	56	56	56	56
	901	Ground Level Works Finalization	113	36	39	73	73	73	73	73	73	73	73	73	73	73	73
D	902	Tree Planting	109	36	39	70	70	70	70	70	70	70	70	70	70	70	70
	101	Mobilization	101	61	44	57	57	57	57	57	57	57	57	57	57	57	57
D	102	Site Preparation + Tree Felling	112	61	44	69	69	69	69	69	69	69	69	69	69	69	69
	201	Bored Piles 1m dia	114	61	44	70	70	70	70	70	70	70	70	70	70	70	70
	202	Pile Caps	113	61	44	69	69	69	69	69	69	69	69	69	69	69	69
	203	Columns (average 11.5m)	113	61	44	69	69	69	69	69	69	69	69	69	69	69	69
D	204	UU diversion	113	61	44	69	69	69	69	69	69	69	69	69	69	69	69
	205	Abutment (125m long)	112	61	44	69	69	69	69	69	69	69	69	69	69	69	69
	206	Deck Spans (gen 40m) (including road drainage works)	113	61	44	69	69	69	69	69	69	69	69	69	69	69	69
	207	Edge Barrier	102	61	44	58	58	58	58	58	58	58	58	58	58	58	58
D	210	Road Works and Installation of Road Lighting	113	61	44	69	69	69	69	69	69	69	69	69	69	69	69
	303	Structural Steel Frame Erection	113	61	44	69	69	69	69	69	69	69	69	69	69	69	69
	304	Noise Panel Installation	109	61	44	65	65	65	65	65	65	65	65	65	65	65	65
	305	Finishing	109	61	44	65	65	65	65	65	65	65	65	65	65	65	65
D	502	Breaking up & Removal of Columns	110	61	44	67	67	67	67	67	67	67	67	67	67	67	67
	503	Breaking up & Removal of Staircases	110	61	44	67	67	67	67	67	67	67	67	67	67	67	67
	504	Breaking up & Removal of Pile Caps	113	61	44	69	69	69	69	69	69	69	69	69	69	69	69
	701	Relocation/modification of existing bus lay-by	106	61	44	63	63	63	63	63	63	63	63	63	63	63	63
D	801	Modification of Kwai Chung Road (outside Fung King House)	114	61	44	70	70	70	70	70	70	70	70	70	70	70	70

Appendix 4-7D Detailed Construction Noise Calculations (Unmitigated)

AP Standard	501		Monthly Construction Noise Level, dB(A)																									
	Fung King House		2018				2019				2020				2021													
	Works Area	Task ID	Task Description	SWL, dB(A)	Distance, m	Correction, dB(A)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug		
D		901	Ground Level Works Finalization	113	61	44																						
		902	Tree Planting	109	61	44																						
E		101	Mobilization	101	62	44																						
		102	Site Preparation + Tree Felling	112	62	44																						
E		201	Bored Piles 1m dia	114	62	44																						
		202	Pile Caps	113	62	44																						
		203	Columns (average 11.5m)	113	62	44																						
		204	UU diversion	113	62	44																						
		205	Abutment (125m long)	112	62	44																						
		206	Deck Spans (gen 40m)(including road drainage works)	113	62	44																						
		207	Edge Barrier	102	62	44																						
		210	Road Works and Installation of Road Lighting	113	62	44																						
		303	Structural Steel Frame Erection	113	62	44																						
		304	Noise Panel Installation	109	62	44																						
E		305	Finishing	109	62	44																						
		502	Breaking up & Removal of Columns	110	62	44																						
E		503	Breaking up & Removal of Staircases	110	62	44																						
		504	Breaking up & Removal of Pile Caps	113	62	44																						
E		701	Relocation/modification of existing bus lay-by	106	62	44																						
		901	Ground Level Works Finalization	113	62	44																						
E		902	Tree Planting	109	62	44																						
		101	Mobilization	101	155	52	49																					
F		102	Site Preparation + Tree Felling	112	155	52	61																					
		201	Bored Piles 1m dia	114	155	52	62																					
F		202	Pile Caps	113	155	52	61																					
		203	Columns (average 11.5m)	113	155	52	61																					
F		204	UU diversion	113	155	52	61																					
		205	Abutment (125m long)	112	155	52	61																					
		206	Deck Spans (gen 40m)(including road drainage works)	113	155	52	61																					
		207	Edge Barrier	102	155	52	50																					
		210	Road Works and Installation of Road Lighting	113	155	52	61																					
		303	Structural Steel Frame Erection	113	155	52	61																					
F		304	Noise Panel Installation	109	155	52	57																					
		305	Finishing	109	155	52	57																					
F		901	Ground Level Works Finalization	113	155	52	61																					
		902	Tree Planting	109	155	52	58																					

Overall	Overall (CNL w/o façade effect), dB(A)		65	65	68	74	75	68	68	74	66	66	67	66	73	74	67	66	73	75	73	64	68	76	76	72	74	69	70	74	73	74	74	74	69	69	63	72	71	69	67	69	70	71	75	73		
	Façade effect, dB(A)		3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	Overall (CNL w/ façade effect), dB(A)		68	68	71	77	78	71	71	77	77	71	69	69	70	69	76	77	70	69	76	78	76	67	71	79	79	75	77	72	73	77	76	77	77	77	72	72	66	75	74	72	70	72	73	74	78	76

Remark: \*\* calculation table above only show tasks for which there are PMEs in use during the day-time

Appendix 4-7D Detailed Construction Noise Calculations (Unmitigated)

AP Standard	Fung King House		Monthly Construction Noise Level, dB(A)																
	Works Area	Task ID	Task Description	SWL, dB(A)	Distance, m	Correction, dB(A)	Year												
							2018			2019			2020			2021			
							Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
A	101	101	Mobilization	101	185	53	48												
	102	102	Site Preparation + Tree Felling	112	185	53	59	48	48										
	401	401	UU diversion	113	185	53	59	59	59										
	402	402	Bored Piles 1m dia	114	185	53	61	61											
	403	403	Pile Caps	113	185	53	59	59	59										
	404	404	Columns (average 11m)	113	185	53	59	59	59										
	405	405	Deck Spans (gen 25m)	113	185	53	59	59	59	59	59	59	59	59	59	59	59	59	59
	406	406	Edge Barrier	102	185	53	49	49	49	49	49	49	49	49	49	49	49	49	49
	409	409	Road Works and Installation of Road Lighting	114	185	53	60	60	60	60	60	60	60	60	60	60	60	60	60
	901	901	Ground Level Works Finalization	113	185	53	56												
B	101	101	Mobilization	101	91	47	54	54	54										
	102	102	Site Preparation + Tree Felling	112	91	47	65	65											
	601	601	Bored Piles 1m dia	114	91	47	67	67											
	602	602	Pile Caps	113	91	47	66	66	66										
	603	603	Central Column	113	91	47	66	66	66										
	604	604	Staircases	112	91	47	65	65	65										
	607	607	Lift Tower Wall	112	91	47	65	65	65										
	608	608	Lift Frame Erection	113	91	47	66	66	66										
	609	609	Window Panel Installation	109	91	47	62	62	62										
	615	615	E&M Installation (including lift)	95	91	47	48	48	48										
B	901	901	Ground Level Works Finalization	113	91	47	65												
	902	902	Tree Planting	109	91	47	62	62	62										
	101	101	Mobilization	101	36	39	73	73											
	102	102	Site Preparation + Tree Felling	112	36	39	73	73											
	601	601	Bored Piles 1m dia	114	36	39	75	75											
	602	602	Pile Caps	113	36	39	74	74											
	603	603	Central Column	113	36	39	74	74											
	604	604	Staircases	112	36	39	73	73											
	607	607	Lift Tower Wall	112	36	39	73	73											
	608	608	Lift Frame Erection	113	36	39	74	74											
C	609	609	Window Panel Installation	109	36	39	70	70											
	615	615	E&M Installation (including lift)	95	36	39	56	56											
	901	901	Ground Level Works Finalization	113	36	39	73	73											
	902	902	Tree Planting	109	36	39	70	70											
	101	101	Mobilization	101	61	44	57	57	57										
	102	102	Site Preparation + Tree Felling	112	61	44	69	69											
	201	201	Bored Piles 1m dia	114	61	44	70	70											
	202	202	Pile Caps	113	61	44	69	69											
	203	203	Columns (average 11.5m)	113	61	44	69	69											
	204	204	UU diversion	113	61	44	69	69											
D	205	205	Abutment (125m long)	112	61	44	69	69											
	206	206	Deck Spans (gen 40m) (including road drainage works)	113	61	44	69	69											
	207	207	Edge Barrier	102	61	44	58	58											
	210	210	Road Works and Installation of Road Lighting	113	61	44	69	69											
	303	303	Structural Steel Frame Erection	113	61	44	69	69											
	304	304	Noise Panel Installation	109	61	44	65	65											
	305	305	Finishing	109	61	44	65	65											
	502	502	Breaking up & Removal of Columns	110	61	44	67	67											
	503	503	Breaking up & Removal of Staircases	110	61	44	67	67											
	504	504	Breaking up & Removal of Pile Caps	113	61	44	69	69											
D	701	701	Relocation/modification of existing bus lay-by	106	61	44	63	63											
	801	801	Modification of Kwai Chung Road (outside Fung King House)	114	61	44	70	70											

Unmitigated \*\*

Appendix 4-7D Detailed Construction Noise Calculations (Unmitigated)

AP Standard	504	Fung King House	Monthly Construction Noise Level, dB(A)																												
			2018						2019						2020						2021										
			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May
Works Area	Task ID	Task Description	SWL, dB(A)	Distance, m	Correction, dB(A)	Correction, CNL, dB(A)																									
D	901	Ground Level Works Finalization	113	61	44	69																									
	902	Tree Planting	109	61	44	66																									
	101	Mobilization	101	62	44	57																									
E	102	Site Preparation + Tree Felling	112	62	44	69																									
	201	Bored Piles 1m dia	114	62	44	70																									
	202	Pile Caps	113	62	44	69																									
	203	Columns (average 11.5m)	113	62	44	69																									
	204	UU diversion	113	62	44	69																									
E	205	Abutment (125m long)	112	62	44	69																									
	206	Deck Spans (gen 40m)(including road drainage works)	113	62	44	69																									
	207	Edge Barrier	102	62	44	58																									
	210	Road Works and Installation of Road Lighting	113	62	44	69																									
	303	Structural Steel Frame Erection	113	62	44	69																									
E	304	Noise Panel Installation	109	62	44	65																									
	305	Finishing	109	62	44	65																									
	502	Breaking up & Removal of Columns	110	62	44	67																									
E	503	Breaking up & Removal of Staircases	110	62	44	67																									
	504	Breaking up & Removal of Pile Caps	113	62	44	69																									
E	701	Relocation/modification of existing bus lay-by	106	62	44	62																									
	901	Ground Level Works Finalization	113	62	44	69																									
E	902	Tree Planting	109	62	44	66																									
F	101	Mobilization	101	155	52	49																									
	102	Site Preparation + Tree Felling	112	155	52	61																									
	201	Bored Piles 1m dia	114	155	52	62																									
	202	Pile Caps	113	155	52	61																									
	203	Columns (average 11.5m)	113	155	52	61																									
F	204	UU diversion	113	155	52	61																									
	205	Abutment (125m long)	112	155	52	61																									
	206	Deck Spans (gen 40m)(including road drainage works)	113	155	52	61																									
	207	Edge Barrier	102	155	52	50																									
	210	Road Works and Installation of Road Lighting	113	155	52	61																									
	303	Structural Steel Frame Erection	113	155	52	61																									
F	304	Noise Panel Installation	109	155	52	57																									
	305	Finishing	109	155	52	57																									
	901	Ground Level Works Finalization	113	155	52	61																									
	902	Tree Planting	109	155	52	58																									

Overall	Overall (CNL w/o façade effect), dB(A)												Façade effect, dB(A)												Overall (CNL w/ façade effect), dB(A)											
	65												68												68											
	3												3												3											

Remark: \*\* calculation table above only show tasks for which there are PMEs in use during the day-time

Appendix 4-7D Detailed Construction Noise Calculations (Unmitigated)

AP Standard		Fung King House		Monthly Construction Noise Level, dB(A)													
Works Area	Task ID	Task Description	SWL, dB(A)	Distance, m	Correction, dB(A)	Year											
						2018			2019			2020			2021		
						Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
A	101	Mobilization	101	331	58	43	43										
	102	Site Preparation + Tree Felling	112	331	58	54											
	401	UU diversion	113	331	58	54	54										
	402	Bored Piles 1m dia	114	331	58	56	66										
A	403	Pile Caps	113	331	58	54	54	54	54	54	54	54	54				
	404	Columns (average 11m)	113	331	58	54				54							
	405	Deck Spans (gen 25m)	113	331	58	54				54	54	54	54	54	54		
	406	Edge Barrier	102	331	58	44					44	44	44	44	44		
	409	Road Works and Installation of Road Lighting	114	331	58	55									55	55	55
A	901	Ground Level Works Finalization	113	331	58	54											
	902	Tree Planting	109	331	58	51											51
B	101	Mobilization	101	233	55	46	46										
	102	Site Preparation + Tree Felling	112	233	55	57											
	601	Bored Piles 1m dia	114	233	55	59	59										
	602	Pile Caps	113	233	55	57											
B	603	Central Column	113	233	55	57											
	604	Staircases	112	233	55	57											
	607	Lift Tower Wall	112	233	55	57					57						
	608	Lift Frame Erection	113	233	55	58					58						
	609	Window Panel Installation	109	233	55	54											
B	615	E&M Installation (including lift)	95	233	55	40											
	901	Ground Level Works Finalization	113	233	55	57							40				
	902	Tree Planting	109	233	55	54											54
C	101	Mobilization	101	177	53	48	48										
	102	Site Preparation + Tree Felling	112	177	53	59											
C	601	Bored Piles 1m dia	114	177	53	61											
	602	Pile Caps	113	177	53	60											
	603	Central Column	113	177	53	60						60					
	604	Staircases	112	177	53	59											
C	607	Lift Tower Wall	112	177	53	59											
	608	Lift Frame Erection	113	177	53	60											
	609	Window Panel Installation	109	177	53	56											
	615	E&M Installation (including lift)	95	177	53	42											
	901	Ground Level Works Finalization	113	177	53	60											
D	101	Mobilization	101	47	41	60	60	60									
	102	Site Preparation + Tree Felling	112	47	41	71											
D	201	Bored Piles 1m dia	114	47	41	73											
	202	Pile Caps	113	47	41	71											
	203	Columns (average 11.5m)	113	47	41	71											
	204	UU diversion	113	47	41	71											
D	205	Abutment (125m long)	112	47	41	71											
	206	Deck Spans (gen 40m) (including road drainage works)	113	47	41	71											
	207	Edge Barrier	102	47	41	61											
D	210	Road Works and Installation of Road Lighting	113	47	41	72											
	303	Structural Steel Frame Erection	113	47	41	68											
D	304	Noise Panel Installation	109	47	41	68											
	305	Finishing	109	47	41	68											
D	502	Breaking up & Removal of Columns	110	47	41	69											
	503	Breaking up & Removal of Staircases	110	47	41	69											
D	701	Relocation/modification of existing bus lay-by	106	47	41	65											
	801	Modification of Kwai Chung Road (outside Fung King House)	114	47	41	72											

Unmitigated \*\*

Appendix 4-7D Detailed Construction Noise Calculations (Unmitigated)

AP Standard	509	Monthly Construction Noise Level, dB(A)																
		2021																
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec					
Works Area	75	Fung King House																
		Task ID	Task Description	SWL, dB(A)	Distance, m	Correction, dB(A)	CNL, dB(A)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov
D	901	Ground Level Works Finalization	113	47	41	71												
	902	Tree Planting	109	47	41	66												
E	101	Mobilization	101	189	54	48	48	48										
	102	Site Preparation + Tree Felling	112	189	54	59						59						
	201	Bored Piles 1m dia	114	189	54	60												
	202	Pile Caps	113	189	54	59						59	59					
E	203	Columns (average 11.5m)	113	189	54	59												
	204	UU diversion	113	189	54	59												
	205	Abutment (125m long)	112	189	54	59												
	206	Deck Spans (gen 40m)(including road drainage works)	113	189	54	59							59	59	59			
	207	Edge Barrier	102	189	54	48												
	210	Road Works and Installation of Road Lighting	113	189	54	60											60	
E	303	Structural Steel Frame Erection	113	189	54	59												
	304	Noise Panel Installation	109	189	54	55											55	55
	305	Finishing	109	189	54	55												
	502	Breaking up & Removal of Columns	110	189	54	57											57	
E	503	Breaking up & Removal of Staircases	110	189	54	57												
	504	Breaking up & Removal of Pile Caps	113	189	54	59											59	
E	701	Relocation/modification of existing bus lay-by	106	189	54	53												53
	901	Ground Level Works Finalization	113	189	54	59												59
	902	Tree Planting	109	189	54	56												56
	101	Mobilization	101	318	58	43	43											
F	102	Site Preparation + Tree Felling	112	318	58	54												
	201	Bored Piles 1m dia	114	318	58	56											56	
	202	Pile Caps	113	318	58	55												
	203	Columns (average 11.5m)	113	318	58	55												
F	204	UU diversion	113	318	58	55												55
	205	Abutment (125m long)	112	318	58	54												
	206	Deck Spans (gen 40m)(including road drainage works)	113	318	58	55												
	207	Edge Barrier	102	318	58	44												
	210	Road Works and Installation of Road Lighting	113	318	58	55												55
	303	Structural Steel Frame Erection	113	318	58	55												
F	304	Noise Panel Installation	109	318	58	51												51
	305	Finishing	109	318	58	51												51
	901	Ground Level Works Finalization	113	318	58	54												54
	902	Tree Planting	109	318	58	51												51

Overall	Monthly Construction Noise Level, dB(A)																																							
	2021																																							
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec																												
	60	60	61	63	62	60	60	61	59	59	59	61	71	62	59	66	76	78	74	76	61	61	61	74	70	72	75	72	71	56	72	68	68	68	69	73				
	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3		
	63	63	64	66	65	63	63	64	62	62	62	62	64	74	65	61	69	79	81	77	79	64	64	64	77	73	75	78	75	74	58	75	75	71	71	71	71	71	72	76

Remark: \*\* calculation table above only show tasks for which there are PMEs in use during the day-time





**Appendix 4-7D Detailed Construction Noise Calculations (Unmitigated)**

AP Standard	Ming King House												Monthly Construction Noise Level, dB(A)																									
	701		2018										2019										2020		2021													
	Works Area	Task ID	Task Description	SWL, dB(A)	Distance, m	Correction, dB(A)	CNL, dB(A)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul
D	E	901	Ground Level Works Finalization	113	50	42	71																															
		902	Tree Planting	109	50	42	66																														71	
		101	Mobilization	109	230	55	46	46																														68
		102	Site Preparation + Tree Felling	112	230	55	57						57																									
		201	Bored Piles 1m dia	114	230	55	59														59																	
		202	Pile Caps	113	230	55	58																			58												
		203	Columns (average 11.5m)	113	230	55	58																															
		204	UU diversion	113	230	55	56																															
		205	Abutment (125m long)	112	230	55	57																															
		206	Deck Spans (gen 40m)(including road drainage works)	113	230	55	58																															
		207	Edge Barrier	102	230	55	47																															
E	E	210	Road Works and Installation of Road Lighting	113	230	55	58																															
		303	Structural Steel Frame Erection	113	230	55	58																															
		304	Noise Panel Installation	109	230	55	54																															
		305	Finishing	109	230	55	54																															
		502	Breaking up & Removal of Columns	110	230	55	55																															
		503	Breaking up & Removal of Staircases	110	230	55	55																															
		504	Breaking up & Removal of Pile Caps	113	230	55	58																															
		701	Relocation/modification of existing bus lay-by	106	230	55	51																															
		901	Ground Level Works Finalization	113	230	55	57																															
		902	Tree Planting	109	230	55	54																															
		F	F	101	Mobilization	101	360	59	42	42																												
102	Site Preparation + Tree Felling			112	360	59	53								53																							
201	Bored Piles 1m dia			114	360	59	55																															
202	Pile Caps			113	360	59	54																															
203	Columns (average 11.5m)			113	360	59	54																															
204	UU diversion			113	360	59	54																															
205	Abutment (125m long)			112	360	59	53																															
206	Deck Spans (gen 40m)(including road drainage works)			113	360	59	54																															
207	Edge Barrier			102	360	59	43																															
210	Road Works and Installation of Road Lighting			113	360	59	54																															
303	Structural Steel Frame Erection			113	360	59	54																															
F	F	304	Noise Panel Installation	109	360	59	50																															
		305	Finishing	109	360	59	50																															
		901	Ground Level Works Finalization	113	360	59	53																															
		902	Tree Planting	109	360	59	50																															

Overall	Overall (CNL w/o façade effect), dB(A)																																			
	Façade effect, dB(A)																																			
	<b>Overall (CNL w/ façade effect), dB(A)</b>																																			

Remark: \*\* calculation table above only show tasks for which there are PMEs in use during the day-time









Appendix 4-7D Detailed Construction Noise Calculations (Unmitigated)

AP Standard	902 HKAEA-Lai King Assessment Centre		Monthly Construction Noise Level, dB(A)																
	Works Area	Task ID	Task Description	SWL, dB(A)	Distance, m	Correction, dB(A)	2019												
							2018			2020			2021						
							Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
A	101	101	Mobilization	101	426	61	40	40											
	102	102	Site Preparation + Tree Felling	112	426	61	52	52											
	401	401	UU diversion	113	426	61	52	52											
	402	402	Bored Piles 1m dia	114	426	61	53	53											
	403	403	Pile Caps	113	426	61	52	52	52	52	52	52	52	52	52	52	52	52	52
	404	404	Columns (average 11m)	113	426	61	52	52											
	405	405	Deck Spans (gen 25m)	113	426	61	52	52	52	52	52	52	52	52	52	52	52	52	52
	406	406	Edge Barrier	102	426	61	41	41											
	409	409	Road Works and Installation of Road Lighting	114	426	61	53	53											
	901	901	Ground Level Works Finalization	113	426	61	52	52											
902	902	Tree Planting	109	426	61	49	49												
B	101	101	Mobilization	101	329	58	43	43											
	102	102	Site Preparation + Tree Felling	112	329	58	54	54											
	601	601	Bored Piles 1m dia	114	329	58	56	56											
	602	602	Pile Caps	113	329	58	54	54											
	603	603	Central Column	113	329	58	54	54											
	604	604	Staircases	112	329	58	54	54											
	607	607	Lift Tower Wall	112	329	58	54	54											
	608	608	Lift Frame Erection	113	329	58	55	55											
	609	609	Window Panel Installation	109	329	58	51	51											
	615	615	E&M Installation (including lift)	95	329	58	37	37											
901	901	Ground Level Works Finalization	113	329	58	54	54												
902	902	Tree Planting	109	329	58	51	51												
C	101	101	Mobilization	101	268	57	44	44											
	102	102	Site Preparation + Tree Felling	112	268	57	56	56											
	601	601	Bored Piles 1m dia	114	268	57	57	57											
	602	602	Pile Caps	113	268	57	56	56											
	603	603	Central Column	113	268	57	56	56											
	604	604	Staircases	112	268	57	56	56											
	607	607	Lift Tower Wall	112	268	57	56	56											
	608	608	Lift Frame Erection	113	268	57	56	56											
	609	609	Window Panel Installation	109	268	57	52	52											
	615	615	E&M Installation (including lift)	95	268	57	38	38											
901	901	Ground Level Works Finalization	113	268	57	56	56												
902	902	Tree Planting	109	268	57	53	53												
D	101	101	Mobilization	101	88	47	54	54											
	102	102	Site Preparation + Tree Felling	112	88	47	66	66											
	201	201	Bored Piles 1m dia	114	88	47	67	67											
	202	202	Pile Caps	113	88	47	66	66											
	203	203	Columns (average 11.5m)	113	88	47	66	66											
	204	204	UU diversion	113	88	47	66	66											
	205	205	Abutment (125m long)	112	88	47	66	66											
	206	206	Deck Spans (gen 40m)(including road drainage works)	113	88	47	66	66											
	207	207	Edge Barrier	102	88	47	55	55											
	210	210	Road Works and Installation of Road Lighting	113	88	47	66	66											
D	303	303	Structural Steel Frame Erection	113	88	47	66	66											
	304	304	Noise Panel Installation	109	88	47	62	62											
	305	305	Finishing	109	88	47	62	62											
	502	502	Breaking up & Removal of Columns	110	88	47	64	64											
	503	503	Breaking up & Removal of Staircases	110	88	47	64	64											
	504	504	Breaking up & Removal of Pile Caps	113	88	47	66	66											
	701	701	Relocation/modification of existing bus lay-by	106	88	47	59	59											
	801	801	Modification of Kwai Chung Road (outside Fung King House)	114	88	47	67	67											

Unmitigated \*\*



Appendix 4-7D Detailed Construction Noise Calculations (Unmitigated)

AP Standard	1002	Yin Lai Court - Yin Kwong House (Block A)	75	Monthly Construction Noise Level, dB(A)														
				2019														
				Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
Works Area	Task ID	Task Description	SWL, dB(A)	Distance, m	Correction, dB(A)	CNL, dB(A)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	Area																	
A	101	Mobilization	101	475	62	40												
	102	Site Preparation + Tree Felling	112	475	62	40	40	40										
	401	UU diversion	113	475	62	51		51										
	402	Bored Piles 1m dia	114	475	62	52		52										
	403	Pile Caps	113	475	62	51		51										
	404	Columns (average 11m)	113	475	62	51			51									
	405	Deck Spans (gen 25m)	102	475	62	40			51	51	51	51	51	51	51	51	51	51
	406	Edge Barrier	102	475	62	40					40	40	40	40	40	40	40	40
	409	Road Works and Installation of Road Lighting	114	475	62	52											52	52
	901	Ground Level Works Finalization	113	475	62	51												
A	902	Tree Planting	109	475	62	48												
	101	Mobilization	101	377	60	42		42										
B	102	Site Preparation + Tree Felling	112	377	60	53			53									
	601	Bored Piles 1m dia	114	377	60	54			54	54								
B	602	Pile Caps	113	377	60	53									53	53		
	603	Central Column	113	377	60	53												
B	604	Staircases	112	377	60	53									53	53		
	607	Lift Tower Wall	112	377	60	53									53	53		
B	608	Lift Frame Erection	113	377	60	53											49	
	609	Window Panel Installation	109	377	60	49												
B	615	E&M Installation (including lift)	95	377	60	35												
	901	Ground Level Works Finalization	113	377	60	53												
B	902	Tree Planting	109	377	60	50												
	101	Mobilization	101	325	58	54												
C	102	Site Preparation + Tree Felling	112	325	58	54												
	601	Bored Piles 1m dia	114	325	58	56												
C	602	Pile Caps	113	325	58	54												
	603	Central Column	113	325	58	55												
C	604	Staircases	112	325	58	54									54	54		
	607	Lift Tower Wall	112	325	58	54									54	54		
C	608	Lift Frame Erection	113	325	58	55											55	
	609	Window Panel Installation	109	325	58	51												
C	615	E&M Installation (including lift)	95	325	58	37											37	
	901	Ground Level Works Finalization	113	325	58	54												
C	902	Tree Planting	109	325	58	51												
	101	Mobilization	101	152	52	61												
D	102	Site Preparation + Tree Felling	112	152	52	61												
	201	Bored Piles 1m dia	114	152	52	62											62	
D	202	Pile Caps	113	152	52	61												
	203	Columns (average 11.5m)	113	152	52	61												61
D	204	UU diversion	113	152	52	61												
	205	Abutment (125m long)	112	152	52	61												
D	206	Deck Spans (gen 40m) (including road drainage works)	113	152	52	61												
	207	Edge Barrier	102	152	52	50												
D	210	Road Works and Installation of Road Lighting	113	152	52	61												
	303	Structural Steel Frame Erection	113	152	52	61												
D	304	Noise Panel Installation	109	152	52	57												
	502	Finishing	109	152	52	57												
D	503	Breaking up & Removal of Columns	110	152	52	59												
	504	Breaking up & Removal of Staircases	110	152	52	59												
D	701	Breaking up & Removal of Pile Caps	113	152	52	61												
	801	Relocation/modification of existing bus lay-by	106	152	52	55												
D	801	Modification of Kwai Chung Road (outside Fung King House)	114	152	52	62												



Appendix 4-7D Detailed Construction Noise Calculations (Unmitigated)

AP Standard	1002 75		Monthly Construction Noise Level, dB(A)												Corr- ection, dB(A)	CNL, dB(A)																				
	Works Area	Task ID	2018			2019			2020			2021																								
		Task Description	SWL, dB(A)	Dist- ance, m	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug												
		901 Ground Level Works Finalization	113	152	52	61																			61											
	D	902 Tree Planting	109	152	52	56																			56											
		101 Mobilization	101	333	58	43																														
	E	102 Site Preparation + Tree Felling	112	353	58	54																														
		201 Bored Piles 1m dia	114	333	58	56																														
		202 Pile Caps	113	333	58	54																														
		203 Columns (average 11.5m)	113	333	58	54																														
	E	204 UU diversion	113	333	58	54																														
		205 Abutment (125m long)	112	333	58	54																														
		206 Deck Spans (gen 40m)(including road drainage works)	113	353	58	54																														
		207 Edge Barrier	102	333	58	44																														
		210 Road Works and Installation of Road Lighting	113	333	58	55																														
		303 Structural Steel Frame Erection	113	333	58	54																														
	E	304 Noise Panel Installation	109	333	58	51																														
		305 Finishing	109	333	58	51																														
		502 Breaking up & Removal of Columns	110	333	58	52																														
	E	503 Breaking up & Removal of Staircases	110	333	58	52																														
		504 Breaking up & Removal of Pile Caps	113	333	58	54																														
	E	701 Relocation/modification of existing bus lay-by	106	333	58	48																														
		901 Ground Level Works Finalization	113	333	58	54																														
	E	902 Tree Planting	109	333	58	51																														
		101 Mobilization	101	463	61	40																														
	F	102 Site Preparation + Tree Felling	112	463	61	51																														
		201 Bored Piles 1m dia	114	463	61	53																														
		202 Pile Caps	113	463	61	51																														
		203 Columns (average 11.5m)	113	463	61	52																														
	F	204 UU diversion	113	463	61	51																														
		205 Abutment (125m long)	112	463	61	51																														
		206 Deck Spans (gen 40m)(including road drainage works)	113	463	61	52																														
		207 Edge Barrier	102	463	61	41																														
		210 Road Works and Installation of Road Lighting	113	463	61	52																														
		303 Structural Steel Frame Erection	113	463	61	52																														
	F	304 Noise Panel Installation	109	463	61	48																														
		305 Finishing	109	463	61	48																														
		901 Ground Level Works Finalization	113	463	61	51																														
	F	902 Tree Planting	109	463	61	48																														
Overall		Overall (CNL w/o façade effect), dB(A)			52	52	58	58	57	56	56	56	55	55	55	55	56	58	67	68	64	66	66	66	63	63	62	62	62	62	59	59	59	60	60	63
		Façade effect, dB(A)			3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
		Overall (CNL w/ façade effect), dB(A)			55	55	61	61	60	59	59	59	58	58	58	58	59	61	68	71	70	67	69	69	67	66	66	65	65	65	62	62	62	62	62	63

Remark: \*\* calculation table above only show tasks for which there are PMEs in use during the day-time





Appendix 4-7E Summary of the Construction Noise Level (Unmitigated)

Monthly Maximum Construction Noise Levels, dB(A)

ID	NSR	Description	2018												2019												2020												2021											
			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug				
202		Lingnam Dr. Chung Wing Kong Memorial Secondary School	65/70	60	60	70	68	69	67	68	68	67	67	70	69	68	67	68	65	65	68	68	66	63	66	63	63	64	64	67	66	68	65																	
303		Lai King Catholic Secondary School	65/70																																															
304		Lai King Catholic Secondary School	65/70	69	69	76	78	79	77	77	76	76	75	77	80	76	75	73	71	72	72	72	74	74	75	73	65	65	66	70	76	72	79	75																
401		Ha Kwai Chung Polytechnic and Special Services Centre	70	58	68	68	66	66	66	65	65	65	65	65	65	66	64	64	67	68	66	67	64	64	67	67	66	65	60	60	61	65	62	61	62	63	65	64	66	64										
404		Ha Kwai Chung Polytechnic and Special Services Centre	70	59	59	68	69	68	67	67	66	66	66	65	66	66	65	65	69	67	68	65	65	68	68	68	68	67	62	62	61	66	64	63	63	64	66	66	68	66	68	66								
501		Fung King House	75	68	68	71	77	78	71	71	77	69	69	70	69	76	77	70	69	76	67	71	79	75	77	72	73	77	76	77	77	77	72	66	75	74	72	70	72	73	74	78	76							
503		Fung King House	75	63	63	64	66	65	63	63	64	62	62	62	63	66	63	62	64	74	65	61	69	79	81	77	79	64	77	73	75	75	78	75	74	59	75	71	71	71	71	71	72	76						
701		Ming King House	75	63	63	64	63	62	62	62	61	61	60	62	64	62	61	62	61	62	64	60	68	79	80	77	79	62	76	72	74	77	74	74	58	74	70	70	70	71	71	71	75							
801		Yat King House	75	59	59	64	65	64	62	62	63	62	62	61	62	65	63	61	63	69	64	61	65	74	75	72	73	63	63	71	69	70	72	69	69	59	70	69	66	66	66	67	67	70						
901		HKEAA-Lai King Assessment Centre	65/70	60	60	62	63	62	60	60	61	59	59	59	61	63	61	59	61	71	63	60	66	76	77	74	75	61	61	73	70	72	71	74	71	71	58	71	71	67	67	68	68	68	72					
902		HKEAA-Lai King Assessment Centre	65/70	59	59	62	63	62	60	60	61	59	59	59	60	62	61	59	61	59	61	69	62	59	64	74	75	72	74	60	61	71	68	70	72	69	69	69	57	70	69	66	66	66	66	67	71			
1002		Wo King House	75	55	55	61	61	60	59	59	58	58	58	58	58	59	61	60	58	59	65	61	58	61	70	71	67	69	59	67	65	66	68	65	64	56	65	65	65	62	62	62	62	63	63	66				
1102		Ming King House	75	54	54	60	61	59	58	58	58	58	58	57	58	60	59	58	58	64	60	58	61	68	70	66	68	58	59	66	64	65	65	67	63	63	56	64	63	60	61	61	61	62	62	62	62			

Note: Noise standard = 65 dB(A) for educational institutions during examination periods; 70 dB(A) for normal school periods