

## Appendix 4.6b Construction Noise Assessment for Restricted Hours (Unmitigated Scenario)

Noise Sensitive Receiver: WSH2 (Shatin Side)  
ASR B

Activity	Reference Code (1)	PME (2)	No. of plant item	Unit SWL, dB(A)	SWL, dB(A)	Work Zone	Distance of Work Zone to NSRs, m (3)	Distance Correction, dB(A)	Mitigation Measures (4)	Barrier Correction, dB(A)	Façade Correction, dB(A)	Predicted Noise Level, dB(A)	Noise Criterion for Night-time Period (2300-0700), dB(A)	Compliance
Construction of Noise Barrier Structures	Group A: CNP 048	Mobile Crane	1	112	112	NW1	50	-42.0			3	73	50	No
	Group B: Note (4)	Welding set	1	78	78		50	-42.0			3	39	50	Yes
	Group C: Other PME	Electric Wrench (Drill, hand-held (battery))	1	89	89		50	-42.0			3	50	50	Yes
	Group D: Other PME	Aerial work platform, working height ≤ 13m	1	95	95		50	-42.0			3	56	50	No
Demolition and Erection of Sign Gantries	Group A: CNP 048	Mobile Crane	1	112	112	Nearest Sign Gantry	50	-42.0			3	73	50	No
	Group B: Other PME	Electric Wrench (Drill, hand-held (battery))	1	89	89		50	-42.0			3	50	50	Yes
	Group C: Note (4)	Welding set	1	78	78		50	-42.0			3	39	50	Yes

Noise Sensitive Receiver: STTNV1 (Shatin Side)  
ASR B

Activity	Reference Code (1)	PME (2)	No. of plant item	Unit SWL, dB(A)	SWL, dB(A)	Work Zone	Distance of Work Zone to NSRs, m (3)	Distance Correction, dB(A)	Mitigation Measures (4)	Barrier Correction, dB(A)	Façade Correction, dB(A)	Predicted Noise Level, dB(A)	Noise Criterion for Night-time Period (2300-0700), dB(A)	Compliance
Construction of Noise Barrier Structures	Group A: CNP 048	Mobile Crane	1	112	112	NW1	41	-40.3			3	75	50	No
	Group B: Note (4)	Welding set	1	78	78		41	-40.3			3	41	50	Yes
	Group C: Other PME	Electric Wrench (Drill, hand-held (battery))	1	89	89		41	-40.3			3	52	50	No
	Group D: Other PME	Aerial work platform, working height ≤ 13m	1	95	95		41	-40.3			3	58	50	No
Demolition and Erection of Sign Gantries	Group A: CNP 048	Mobile Crane	1	112	112	Nearest Sign Gantry	41	-40.3			3	75	50	No
	Group B: Other PME	Electric Wrench (Drill, hand-held (battery))	1	89	89		41	-40.3			3	52	50	No
	Group C: Note (4)	Welding set	1	78	78		41	-40.3			3	41	50	Yes

## Appendix 4.6b Construction Noise Assessment for Restricted Hours (Unmitigated Scenario)

Noise Sensitive Receiver: STTNV2 (Shatin Side)  
ASR B

Activity	Reference Code (1)	PME (2)	No. of plant item	Unit SWL, dB(A)	SWL, dB(A)	Work Zone	Distance of Work Zone to NSRs, m (3)	Distance Correction, dB(A)	Mitigation Measures (4)	Barrier Correction, dB(A)	Façade Correction, dB(A)	Predicted Noise Level, dB(A)	Noise Criterion for Night-time Period (2300-0700), dB(A)	Compliance
Construction of Noise Barrier Structures	Group A: CNP 048	Mobile Crane	1	112	112	NW2	40	-40.0			3	75	50	No
	Group B: Note (4)	Welding set	1	78	78		40	-40.0			3	41	50	Yes
	Group C: Other PME	Electric Wrench (Drill, hand-held (battery))	1	89	89		40	-40.0			3	52	50	No
	Group D: Other PME	Aerial work platform, working height ≤ 13m	1	95	95		40	-40.0			3	58	50	No
Demolition and Erection of Sign Gantries	Group A: CNP 048	Mobile Crane	1	112	112	Nearest Sign Gantry	55	-42.8			3	72	50	No
	Group B: Other PME	Electric Wrench (Drill, hand-held (battery))	1	89	89		55	-42.8			3	49	50	Yes
	Group C: Note (4)	Welding set	1	78	78		55	-42.8			3	38	50	Yes

Noise Sensitive Receiver: STTNV5 (Shatin Side)  
ASR B

Activity	Reference Code (1)	PME (2)	No. of plant item	Unit SWL, dB(A)	SWL, dB(A)	Work Zone	Distance of Work Zone to NSRs, m (3)	Distance Correction, dB(A)	Mitigation Measures (4)	Barrier Correction, dB(A)	Façade Correction, dB(A)	Predicted Noise Level, dB(A)	Noise Criterion for Night-time Period (2300-0700), dB(A)	Compliance
Construction of Noise Barrier Structures	Group A: CNP 048	Mobile Crane	1	112	112	NW2	50	-42.0			3	73	50	No
	Group B: Note (4)	Welding set	1	78	78		50	-42.0			3	39	50	Yes
	Group C: Other PME	Electric Wrench (Drill, hand-held (battery))	1	89	89		50	-42.0			3	50	50	Yes
	Group D: Other PME	Aerial work platform, working height ≤ 13m	1	95	95		50	-42.0			3	56	50	No
Demolition and Erection of Sign Gantries	Group A: CNP 048	Mobile Crane	1	112	112	Nearest Sign Gantry	51	-42.2			3	73	50	No
	Group B: Other PME	Electric Wrench (Drill, hand-held (battery))	1	89	89		51	-42.2			3	50	50	Yes
	Group C: Note (4)	Welding set	1	78	78		51	-42.2			3	39	50	Yes

## Appendix 4.6b Construction Noise Assessment for Restricted Hours (Unmitigated Scenario)

Noise Sensitive Receiver: STW2 (Shatin Side)  
ASR B

Activity	Reference Code (1)	PME (2)	No. of plant item	Unit SWL, dB(A)	SWL, dB(A)	Work Zone	Distance of Work Zone to NSRs, m (3)	Distance Correction, dB(A)	Mitigation Measures (4)	Barrier Correction, dB(A)	Façade Correction, dB(A)	Predicted Noise Level, dB(A)	Noise Criterion for Night-time Period (2300-0700), dB(A)	Compliance
Construction of Noise Barrier Structures	Group A: CNP 048	Mobile Crane	1	112	112	NW2	37	-39.4			3	76	50	No
	Group B: Note (4)	Welding set	1	78	78		37	-39.4			3	42	50	Yes
	Group C: Other PME	Electric Wrench (Drill, hand-held (battery))	1	89	89		37	-39.4			3	53	50	No
	Group D: Other PME	Aerial work platform, working height ≤ 13m	1	95	95		37	-39.4			3	59	50	No
Demolition and Erection of Sign Gantries	Group A: CNP 048	Mobile Crane	1	112	112	Nearest Sign Gantry	55	-42.8			3	72	50	No
	Group B: Other PME	Electric Wrench (Drill, hand-held (battery))	1	89	89		55	-42.8			3	49	50	Yes
	Group C: Note (4)	Welding set	1	78	78		55	-42.8			3	38	50	Yes

Noise Sensitive Receiver: STW6 (Shatin Side)  
ASR B

Activity	Reference Code (1)	PME (2)	No. of plant item	Unit SWL, dB(A)	SWL, dB(A)	Work Zone	Distance of Work Zone to NSRs, m (3)	Distance Correction, dB(A)	Mitigation Measures (4)	Barrier Correction, dB(A)	Façade Correction, dB(A)	Predicted Noise Level, dB(A)	Noise Criterion for Night-time Period (2300-0700), dB(A)	Compliance
Construction of Noise Barrier Structures	Group A: CNP 048	Mobile Crane	1	112	112	NW2	65	-44.3			3	71	50	No
	Group B: Note (4)	Welding set	1	78	78		65	-44.3			3	37	50	Yes
	Group C: Other PME	Electric Wrench (Drill, hand-held (battery))	1	89	89		65	-44.3			3	48	50	Yes
	Group D: Other PME	Aerial work platform, working height ≤ 13m	1	95	95		65	-44.3			3	54	50	No
Demolition and Erection of Sign Gantries	Group A: CNP 048	Mobile Crane	1	112	112	Nearest Sign Gantry	88	-46.9			3	68	50	No
	Group B: Other PME	Electric Wrench (Drill, hand-held (battery))	1	89	89		88	-46.9			3	45	50	Yes
	Group C: Note (4)	Welding set	1	78	78		88	-46.9			3	34	50	Yes

## Appendix 4.6b Construction Noise Assessment for Restricted Hours (Unmitigated Scenario)

Noise Sensitive Receiver: KTV2 (Shatin Side)  
ASR B

Activity	Reference Code (1)	PME (2)	No. of plant item	Unit SWL, dB(A)	SWL, dB(A)	Work Zone	Distance of Work Zone to NSRs, m (3)	Distance Correction, dB(A)	Mitigation Measures (4)	Barrier Correction, dB(A)	Façade Correction, dB(A)	Predicted Noise Level, dB(A)	Noise Criterion for Night-time Period (2300-0700), dB(A)	Compliance
Construction of Noise Barrier Structures	Group A: CNP 048	Mobile Crane	1	112	112	NW2	120	-49.6			3	65	50	No
	Group B: Note (4)	Welding set	1	78	78		120	-49.6			3	31	50	Yes
	Group C: Other PME	Electric Wrench (Drill, hand-held (battery))	1	89	89		120	-49.6			3	42	50	Yes
	Group D: Other PME	Aerial work platform, working height ≤ 13m	1	95	95		120	-49.6			3	48	50	Yes
Demolition and Erection of Sign Gantries	Group A: CNP 048	Mobile Crane	1	112	112	Nearest Sign Gantry	60	-43.6			3	71	50	No
	Group B: Other PME	Electric Wrench (Drill, hand-held (battery))	1	89	89		60	-43.6			3	48	50	Yes
	Group C: Note (4)	Welding set	1	78	78		60	-43.6			3	37	50	Yes

Noise Sensitive Receiver: MWG1 (Shatin Side)  
ASR B

Activity	Reference Code (1)	PME (2)	No. of plant item	Unit SWL, dB(A)	SWL, dB(A)	Work Zone	Distance of Work Zone to NSRs, m (3)	Distance Correction, dB(A)	Mitigation Measures (4)	Barrier Correction, dB(A)	Façade Correction, dB(A)	Predicted Noise Level, dB(A)	Noise Criterion for Night-time Period (2300-0700), dB(A)	Compliance
Construction of Noise Barrier Structures	Group A: CNP 048	Mobile Crane	1	112	112	NW2	223	-55.0			3	60	50	No
	Group B: Note (4)	Welding set	1	78	78		223	-55.0			3	26	50	Yes
	Group C: Other PME	Electric Wrench (Drill, hand-held (battery))	1	89	89		223	-55.0			3	37	50	Yes
	Group D: Other PME	Aerial work platform, working height ≤ 13m	1	95	95		223	-55.0			3	43	50	Yes
Demolition and Erection of Sign Gantries	Group A: CNP 048	Mobile Crane	1	112	112	Nearest Sign Gantry	153	-51.7			3	63	50	No
	Group B: Other PME	Electric Wrench (Drill, hand-held (battery))	1	89	89		153	-51.7			3	40	50	Yes
	Group C: Note (4)	Welding set	1	78	78		153	-51.7			3	29	50	Yes

## Appendix 4.6b Construction Noise Assessment for Restricted Hours (Unmitigated Scenario)

Noise Sensitive Receiver: KTV5 (Shatin Side)  
ASR B

Activity	Reference Code (1)	PME (2)	No. of plant item	Unit SWL, dB(A)	SWL, dB(A)	Work Zone	Distance of Work Zone to NSRs, m (3)	Distance Correction, dB(A)	Mitigation Measures (4)	Barrier Correction, dB(A)	Façade Correction, dB(A)	Predicted Noise Level, dB(A)	Noise Criterion for Night-time Period (2300-0700), dB(A)	Compliance
Construction of Noise Barrier Structures	Group A: CNP 048	Mobile Crane	1	112	112	NW3	148	-51.4			3	64	50	No
	Group B: Note (4)	Welding set	1	78	78		148	-51.4			3	30	50	Yes
	Group C: Other PME	Electric Wrench (Drill, hand-held (battery))	1	89	89		148	-51.4			3	41	50	Yes
	Group D: Other PME	Aerial work platform, working height ≤ 13m	1	95	95		148	-51.4			3	47	50	Yes
Demolition and Erection of Sign Gantries	Group A: CNP 048	Mobile Crane	1	112	112	Nearest Sign Gantry	74	-45.4			3	70	50	No
	Group B: Other PME	Electric Wrench (Drill, hand-held (battery))	1	89	89		74	-45.4			3	47	50	Yes
	Group C: Note (4)	Welding set	1	78	78		74	-45.4			3	36	50	Yes

Noise Sensitive Receiver: HMKR1 (Shatin Side)  
ASR B

Activity	Reference Code (1)	PME (2)	No. of plant item	Unit SWL, dB(A)	SWL, dB(A)	Work Zone	Distance of Work Zone to NSRs, m (3)	Distance Correction, dB(A)	Mitigation Measures (4)	Barrier Correction, dB(A)	Façade Correction, dB(A)	Predicted Noise Level, dB(A)	Noise Criterion for Night-time Period (2300-0700), dB(A)	Compliance
Construction of Noise Barrier Structures	Group A: CNP 048	Mobile Crane	1	112	112	NW3	52	-42.3			3	73	50	No
	Group B: Note (4)	Welding set	1	78	78		52	-42.3			3	39	50	Yes
	Group C: Other PME	Electric Wrench (Drill, hand-held (battery))	1	89	89		52	-42.3			3	50	50	Yes
	Group D: Other PME	Aerial work platform, working height ≤ 13m	1	95	95		52	-42.3			3	56	50	No
Demolition and Erection of Sign Gantries	Group A: CNP 048	Mobile Crane	1	112	112	Nearest Sign Gantry	137	-50.7			3	64	50	No
	Group B: Other PME	Electric Wrench (Drill, hand-held (battery))	1	89	89		137	-50.7			3	41	50	Yes
	Group C: Note (4)	Welding set	1	78	78		137	-50.7			3	30	50	Yes

## Appendix 4.6b Construction Noise Assessment for Restricted Hours (Unmitigated Scenario)

Noise Sensitive Receiver: WWG5 (Shatin Side)  
ASR B

Activity	Reference Code (1)	PME (2)	No. of plant item	Unit SWL, dB(A)	SWL, dB(A)	Work Zone	Distance of Work Zone to NSRs, m (3)	Distance Correction, dB(A)	Mitigation Measures (4)	Barrier Correction, dB(A)	Façade Correction, dB(A)	Predicted Noise Level, dB(A)	Noise Criterion for Night-time Period (2300-0700), dB(A)	Compliance
Construction of Noise Barrier Structures	Group A: CNP 048	Mobile Crane	1	112	112	NW3	15	-31.5			3	83	50	No
	Group B: Note (4)	Welding set	1	78	78		15	-31.5			3	49	50	Yes
	Group C: Other PME	Electric Wrench (Drill, hand-held (battery))	1	89	89		15	-31.5			3	60	50	No
	Group D: Other PME	Aerial work platform, working height ≤ 13m	1	95	95		15	-31.5			3	66	50	No
Demolition and Erection of Sign Gantries	Group A: CNP 048	Mobile Crane	1	112	112	Nearest Sign Gantry	24	-35.6			3	79	50	No
	Group B: Other PME	Electric Wrench (Drill, hand-held (battery))	1	89	89		24	-35.6			3	56	50	No
	Group C: Note (4)	Welding set	1	78	78		24	-35.6			3	45	50	Yes

Noise Sensitive Receiver: WWG8 (Shatin Side)  
ASR B

Activity	Reference Code (1)	PME (2)	No. of plant item	Unit SWL, dB(A)	SWL, dB(A)	Work Zone	Distance of Work Zone to NSRs, m (3)	Distance Correction, dB(A)	Mitigation Measures (4)	Barrier Correction, dB(A)	Façade Correction, dB(A)	Predicted Noise Level, dB(A)	Noise Criterion for Night-time Period (2300-0700), dB(A)	Compliance
Construction of Noise Barrier Structures	Group A: CNP 048	Mobile Crane	1	112	112	NW3	15	-31.5			3	83	50	No
	Group B: Note (4)	Welding set	1	78	78		15	-31.5			3	49	50	Yes
	Group C: Other PME	Electric Wrench (Drill, hand-held (battery))	1	89	89		15	-31.5			3	60	50	No
	Group D: Other PME	Aerial work platform, working height ≤ 13m	1	95	95		15	-31.5			3	66	50	No
Demolition and Erection of Sign Gantries	Group A: CNP 048	Mobile Crane	1	112	112	Nearest Sign Gantry	24	-35.6			3	79	50	No
	Group B: Other PME	Electric Wrench (Drill, hand-held (battery))	1	89	89		24	-35.6			3	56	50	No
	Group C: Note (4)	Welding set	1	78	78		24	-35.6			3	45	50	Yes

## Appendix 4.6b Construction Noise Assessment for Restricted Hours (Unmitigated Scenario)

Noise Sensitive Receiver: JG4 (Shatin Side)  
ASR B

Activity	Reference Code (1)	PME (2)	No. of plant item	Unit SWL, dB(A)	SWL, dB(A)	Work Zone	Distance of Work Zone to NSRs, m (3)	Distance Correction, dB(A)	Mitigation Measures (4)	Barrier Correction, dB(A)	Façade Correction, dB(A)	Predicted Noise Level, dB(A)	Noise Criterion for Night-time Period (2300-0700), dB(A)	Compliance
Construction of Noise Barrier Structures	Group A: CNP 048	Mobile Crane	1	112	112	NW3	44	-40.9			3	74	50	No
	Group B: Note (4)	Welding set	1	78	78		44	-40.9			3	40	50	Yes
	Group C: Other PME	Electric Wrench (Drill, hand-held (battery))	1	89	89		44	-40.9			3	51	50	No
	Group D: Other PME	Aerial work platform, working height ≤ 13m	1	95	95		44	-40.9			3	57	50	No
Demolition and Erection of Sign Gantries	Group A: CNP 048	Mobile Crane	1	112	112	Nearest Sign Gantry	229	-55.2			3	60	50	No
	Group B: Other PME	Electric Wrench (Drill, hand-held (battery))	1	89	89		229	-55.2			3	37	50	Yes
	Group C: Note (4)	Welding set	1	78	78		229	-55.2			3	26	50	Yes

Noise Sensitive Receiver: HP1 (Shatin Side)  
ASR B

Activity	Reference Code (1)	PME (2)	No. of plant item	Unit SWL, dB(A)	SWL, dB(A)	Work Zone	Distance of Work Zone to NSRs, m (3)	Distance Correction, dB(A)	Mitigation Measures (4)	Barrier Correction, dB(A)	Façade Correction, dB(A)	Predicted Noise Level, dB(A)	Noise Criterion for Night-time Period (2300-0700), dB(A)	Compliance
Construction of Noise Barrier Structures	Group A: CNP 048	Mobile Crane	1	112	112	NW3	49	-41.8			3	73	50	No
	Group B: Note (4)	Welding set	1	78	78		49	-41.8			3	39	50	Yes
	Group C: Other PME	Electric Wrench (Drill, hand-held (battery))	1	89	89		49	-41.8			3	50	50	Yes
	Group D: Other PME	Aerial work platform, working height ≤ 13m	1	95	95		49	-41.8			3	56	50	No
Demolition and Erection of Sign Gantries	Group A: CNP 048	Mobile Crane	1	112	112	Nearest Sign Gantry	55	-42.8			3	72	50	No
	Group B: Other PME	Electric Wrench (Drill, hand-held (battery))	1	89	89		55	-42.8			3	49	50	Yes
	Group C: Note (4)	Welding set	1	78	78		55	-42.8			3	38	50	Yes

## Appendix 4.6b Construction Noise Assessment for Restricted Hours (Unmitigated Scenario)

Noise Sensitive Receiver: UC1 (Shatin Side)  
ASR B

Activity	Reference Code (1)	PME (2)	No. of plant item	Unit SWL, dB(A)	SWL, dB(A)	Work Zone	Distance of Work Zone to NSRs, m (3)	Distance Correction, dB(A)	Mitigation Measures (4)	Barrier Correction, dB(A)	Façade Correction, dB(A)	Predicted Noise Level, dB(A)	Noise Criterion for Night-time Period (2300-0700), dB(A)	Compliance
Construction of Noise Barrier Structures	Group A: CNP 048	Mobile Crane	1	112	112	NW3	112	-49.0			3	66	50	No
	Group B: Note (4)	Welding set	1	78	78		112	-49.0			3	32	50	Yes
	Group C: Other PME	Electric Wrench (Drill, hand-held (battery))	1	89	89		112	-49.0			3	43	50	Yes
	Group D: Other PME	Aerial work platform, working height ≤ 13m	1	95	95		112	-49.0			3	49	50	Yes
Demolition and Erection of Sign Gantries	Group A: CNP 048	Mobile Crane	1	112	112	Nearest Sign Gantry	95	-47.6			3	67	50	No
	Group B: Other PME	Electric Wrench (Drill, hand-held (battery))	1	89	89		95	-47.6			3	44	50	Yes
	Group C: Note (4)	Welding set	1	78	78		95	-47.6			3	33	50	Yes

Noise Sensitive Receiver: KSC1 (Shatin Side)  
ASR B

Activity	Reference Code (1)	PME (2)	No. of plant item	Unit SWL, dB(A)	SWL, dB(A)	Work Zone	Distance of Work Zone to NSRs, m (3)	Distance Correction, dB(A)	Mitigation Measures (4)	Barrier Correction, dB(A)	Façade Correction, dB(A)	Predicted Noise Level, dB(A)	Noise Criterion for Night-time Period (2300-0700), dB(A)	Compliance
Construction of Noise Barrier Structures	Group A: CNP 048	Mobile Crane	1	112	112	NW3	195	-53.8			3	61	50	No
	Group B: Note (4)	Welding set	1	78	78		195	-53.8			3	27	50	Yes
	Group C: Other PME	Electric Wrench (Drill, hand-held (battery))	1	89	89		195	-53.8			3	38	50	Yes
	Group D: Other PME	Aerial work platform, working height ≤ 13m	1	95	95		195	-53.8			3	44	50	Yes
Demolition and Erection of Sign Gantries	Group A: CNP 048	Mobile Crane	1	112	112	Nearest Sign Gantry	148	-51.4			3	64	50	No
	Group B: Other PME	Electric Wrench (Drill, hand-held (battery))	1	89	89		148	-51.4			3	41	50	Yes
	Group C: Note (4)	Welding set	1	78	78		148	-51.4			3	30	50	Yes
Construction of New Vehicular Cross over Bridge at Shatin Portal	Group A: CNP 048	Mobile Crane	1	112	112	NW4	164	-52.3			3	63	50	No
	Group B: CNP 064	Drill, percussive, hand-held (electric)	1	103	103		164	-52.3			3	54	50	No
	Group C: Other PME	Electric Wrench (Drill, hand-held (battery))	1	89	89		164	-52.3			3	40	50	Yes
	Group D: Note (4)	Welding set	1	78	78		164	-52.3			3	29	50	Yes



## Appendix 4.6b Construction Noise Assessment for Restricted Hours (Unmitigated Scenario)

Noise Sensitive Receiver: KATC 1 (Shatin Side)  
ASR B

Activity	Reference Code (1)	PME (2)	No. of plant item	Unit SWL, dB(A)	SWL, dB(A)	Work Zone	Distance of Work Zone to NSRs, m (3)	Distance Correction, dB(A)	Mitigation Measures (4)	Barrier Correction, dB(A)	Façade Correction, dB(A)	Predicted Noise Level, dB(A)	Noise Criterion for Night-time Period (2300-0700), dB(A)	Compliance
Work Zone is located beyond 300m from the NSR														
Construction of Noise Barrier Structures														
Demolition and Erection of Sign Gantries	Group A: CNP 048	Mobile Crane	1	112	112	Nearest Sign Gantry	286	-57.1			3	58	50	No
	Group B: Other PME	Electric Wrench (Drill, hand-held (battery))	1	89	89		286	-57.1			3	35	50	Yes
	Group C: Note (4)	Welding set	1	78	78		286	-57.1			3	24	50	Yes
Construction of New Vehicular Cross over Bridge at Shatin Portal	Group A: CNP 048	Mobile Crane	1	112	112	NW4	207	-54.3			3	61	50	No
	Group B: CNP 064	Drill, percussive, hand-held (electric)	1	103	103		207	-54.3			3	52	50	No
	Group C: Other PME	Electric Wrench (Drill, hand-held (battery))	1	89	89		207	-54.3			3	38	50	Yes
	Group D: Note (4)	Welding set	1	78	78		207	-54.3			3	27	50	Yes
Construction of New Middle Third Tunnel	EIA Ref 2	Tunnel Boring Machine	1	88	88	Zone 6a (Note 5)	391	-59.8	Inside Tunnel	-10	3	21		
	CNP 041	Conveyor belt	1	90	90		391	-59.8			3	33		
	CNP 262	Winch (electric)	1	95	95		391	-59.8			3	38		
	EPD-09720	Roller, vibratory	2	94	97		391	-59.8			3	40		
	EPD-09366	Loader, wheeled	1	100	100		391	-59.8			3	43		
	OCUPME-016	Welder/Generator, portable	3	100	105		391	-59.8			3	48		
	CNP 283	Water pump, submersible (electric)	2	85	88		391	-59.8			3	31		
	CNP 021	Bar bender and cutter (electric)	2	90	93		391	-59.8			3	36		
	OCUPME-020	Power pack (diesel)	2	100	103		391	-59.8			3	46		
	OCUPME-002	Air blower	5	95	102		391	-59.8			3	45		
	OCUPME-040	Aerial work platform, working height ≤ 13m	3	95	100		391	-59.8			3	43		
	CNP 241	Ventilation fan (at Shatin Side only)	2	108	111		391	-59.8			3	54		
	CNP 141	Multi-service vehicle	1	112	112		391	-59.8			3	55		
	EPD-03347	Generator	2	93	96		391	-59.8			3	39		
	OCUPME-014	Grout Mixer	2	90	93		391	-59.8			3	36		
	EPD-09710	Air Compressor	2	94	97		391	-59.8			3	40		
EPD-10780	Excavator, wheeled/tracked	1	97	97	391	-59.8			3	40				
OCUPME-031	Water jetting unit (diesel), standard	1	107	107	391	-59.8			3	50				
Total CNL:												60	50	No
Enlargement of Existing Kowloon bound Tunnel	CNP 241	Ventilation fan (at Shatin Side only)	2	108	111	Zone 6b (Note 5)	378	-59.5			3	54		
Total CNL:												54	50	No
Rehabilitation of Existing Shatin Bound Tunnel	EPD-10780	Excavator, wheeled/tracked	1	97	97	Work Zone 6c Note (5)	428	-60.6			3	39		
	CNP 241	Ventilation fan (at Shatin Side only)	2	108	111		428	-60.6			3	53		
	OCUPME-028	Saw, wire	1	101	101		428	-60.6			3	43		
	CNP 064	Drill, percussive, hand-held (electric)	1	103	103		428	-60.6			3	45		
	EPD-09366	Loader, wheeled	1	100	100		428	-60.6			3	42		
	OCUPME-036	Lorry, with crane/grab, 5.5 tonne < gross vehicle weight ≤ 38 tonne	1	105	105		428	-60.6			3	47		
	OCUPME-040	Aerial work platform, working height ≤ 13m	1	95	95		428	-60.6			3	37		
	EPD-03347	Generator	1	93	93		428	-60.6			3	35		
EPD-09710	Air Compressor	1	94	94	428	-60.6			3	36				
Total CNL:												56	50	No

## Appendix 4.6b Construction Noise Assessment for Restricted Hours (Unmitigated Scenario)

Noise Sensitive Receiver: PHD1 (Kowloon Side)  
ASR B

Activity	Reference Code (1)	PME (2)	No. of plant item	Unit SWL, dB(A)	SWL, dB(A)	Work Zones	Distance of Work Zone to NSRs, m (3)	Distance Correction, dB(A)	Mitigation Measures (4)	Barrier Correction, dB(A)	Façade Correction, dB(A)	Predicted Noise Level, dB(A)	Noise Criterion for Night-time Period (2300-0700), dB(A)	Compliance
Construction of Noise Barrier Structures	No barrier / enclosure will be provided at Kowloon side													
Demolition and Erection of Sign Gantries	Group A: CNP 048	Mobile Crane	1	112	112	Nearest Sign Gantry	78	-45.8			3	69	50	No
	Group B: Other PME	Electric Wrench (Drill, hand-held (battery))	1	89	89		78	-45.8			3	46	50	Yes
	Group C: Note (4)	Welding set	1	78	78		78	-45.8			3	35	50	Yes
Construction of New Middle Third Tunnel	The tunnel will be constructed by TBM from Shatin sde, hence, airborne noise impact from the construction of new middle third tunnel will not affect the NSRs at Kowloon side													
Enlargement of Existing Kowloon bound Tunnel	CNP 028	Breaker, excavator mounted (hydraulic)	4	122	128	Work Zone 6b Note (5)	162	-52.2			3	79		
	CNP 081	Excavator/loader, wheeled/tracked	4	112	118		162	-52.2			3	69		
	CNP 030	Bulldozer	2	115	118		162	-52.2			3	69		
											Total CNL:	80	50	No
Rehabilitation of Existing Shatin Bound Tunnel	CNP 081	Excavator/loader, wheeled/tracked	1	112	112	Work Zone 6c Note (5)	122	-49.7			3	65		
	OCUPME-028	Saw, wire	1	101	101		122	-49.7			3	54		
	CNP 064	Drill, percussive, hand-held (electric)	1	103	103		122	-49.7			3	56		
	CNP 081	Excavator/loader, wheeled/tracked	1	112	112		122	-49.7			3	65		
	OCUPME-036	Lorry, with crane/grab, 5.5 tonne < gross vehicle weight ≤ 38 tonne	1	105	105		122	-49.7			3	58		
	OCUPME-040	Aerial work platform, working height ≤ 13m	1	95	95		122	-49.7			3	48		
	CNP 103	Generator, super silenced, 70dB(A) at 7m	1	95	95		122	-49.7			3	48		
CNP 002	Air Compressor, air flow > 10m3/min and < =30m3/min	1	102	102	122	-49.7			3	55				
											Total CNL:	69	50	No
Construction of New Vehicular Bridge next to Existing K7A Vehicular Bridge	Group A: CNP 048	Mobile Crane	1	112	112	NW5	115	-49.2			3	66	50	No
	Group B: CNP 064	Drill, percussive, hand-held (electric)	1	103	103		115	-49.2			3	57	50	No
	Group C: Other PME	Electric Wrench (Drill, hand-held (battery))	1	89	89		115	-49.2			3	43	50	Yes
	Group D: Note (4)	Welding set	1	78	78		115	-49.2			3	32	50	Yes

## Appendix 4.6b Construction Noise Assessment for Restricted Hours (Unmitigated Scenario)

Noise Sensitive Receiver: EH1 (Kowloon Side)  
ASR B

Activity	Reference Code (1)	PME (2)	No. of plant item	Unit SWL, dB(A)	SWL, dB(A)	Work Zones	Distance of Work Zone to NSRs, m (3)	Distance Correction, dB(A)	Mitigation Measures (4)	Barrier Correction, dB(A)	Façade Correction, dB(A)	Predicted Noise Level, dB(A)	Noise Criterion for Night-time Period (2300-0700), dB(A)	Compliance
Construction of Noise Barrier Structures	No barrier / enclosure will be provided at Kowloon side													
Demolition and Erection of Sign Gantries	Group A: CNP 048	Mobile Crane	1	112	112	Nearest Sign Gantry	100	-48.0			3	67	50	No
	Group B: Other PME	Electric Wrench (Drill, hand-held (battery))	1	89	89		100	-48.0			3	44	50	Yes
	Group C: Note (4)	Welding set	1	78	78		100	-48.0			3	33	50	Yes
Construction of New Middle Third Tunnel	The tunnel will be constructed by TBM from Shatin sde, hence, airborne noise impact from the construction of new middle third tunnel will not affect the NSRs at Kowloon side													
Enlargement of Existing Kowloon bound Tunnel	Work Zone is located beyond 300m from the NSR													
Rehabilitation of Existing Shatin Bound Tunnel	Work Zone is located beyond 300m from the NSR													
Construction of New Vehicular Bridge next to Existing K7A Vehicular Bridge	Group A: CNP 048	Mobile Crane	1	112	112	NW5	71	-45.0			3	70	50	No
	Group B: CNP 064	Drill, percussive, hand-held (electric)	1	103	103		71	-45.0			3	61	50	No
	Group C: Other PME	Electric Wrench (Drill, hand-held (battery))	1	89	89		71	-45.0			3	47	50	Yes
	Group D: Note (4)	Welding set	1	78	78		71	-45.0			3	36	50	Yes

Noise Sensitive Receiver: MC1 (Kowloon Side)  
ASR B

Activity	Reference Code (1)	PME (2)	No. of plant item	Unit SWL, dB(A)	SWL, dB(A)	Work Zones	Distance of Work Zone to NSRs, m (3)	Distance Correction, dB(A)	Mitigation Measures (4)	Barrier Correction, dB(A)	Façade Correction, dB(A)	Predicted Noise Level, dB(A)	Noise Criterion for Night-time Period (2300-0700), dB(A)	Compliance
Construction of Noise Barrier Structures	No barrier / enclosure will be provided at Kowloon side													
Demolition and Erection of Sign Gantries	Group A: CNP 048	Mobile Crane	1	112	112	Nearest Sign Gantry	138	-50.8			3	64	50	No
	Group B: Other PME	Electric Wrench (Drill, hand-held (battery))	1	89	89		138	-50.8			3	41	50	Yes
	Group C: Note (4)	Welding set	1	78	78		138	-50.8			3	30	50	Yes
Construction of New Middle Third Tunnel	The tunnel will be constructed by TBM from Shatin sde, hence, airborne noise impact from the construction of new middle third tunnel will not affect the NSRs at Kowloon side													
Enlargement of Existing Kowloon bound Tunnel	Work Zone is located beyond 300m from the NSR													
Rehabilitation of Existing Shatin Bound Tunnel	Work Zone is located beyond 300m from the NSR													
Construction of New Vehicular Bridge next to Existing K7A Vehicular Bridge	Group A: CNP 048	Mobile Crane	1	112	112	NW5	139	-50.9			3	64	50	No
	Group B: CNP 064	Drill, percussive, hand-held (electric)	1	103	103		139	-50.9			3	55	50	No
	Group C: Other PME	Electric Wrench (Drill, hand-held (battery))	1	89	89		139	-50.9			3	41	50	Yes
	Group D: Note (4)	Welding set	1	78	78		139	-50.9			3	30	50	Yes

## Appendix 4.6b Construction Noise Assessment for Restricted Hours (Unmitigated Scenario)

Noise Sensitive Receiver: PH2 (Kowloon Side)  
ASR B

Activity	Reference Code (1)	PME (2)	No. of plant item	Unit SWL, dB(A)	SWL, dB(A)	Work Zones	Distance of Work Zone to NSRs, m (3)	Distance Correction, dB(A)	Mitigation Measures (4)	Barrier Correction, dB(A)	Façade Correction, dB(A)	Predicted Noise Level, dB(A)	Noise Criterion for Night-time Period (2300-0700), dB(A)	Compliance
Construction of Noise Barrier Structures	No barrier / enclosure will be provided at Kowloon side													
Demolition and Erection of Sign Gantries	Group A: CNP 048	Mobile Crane	1	112	112	Nearest Sign Gantry	214	-54.6			3	60	50	No
	Group B: Other PME	Electric Wrench (Drill, hand-held (battery))	1	89	89		214	-54.6			3	37	50	Yes
	Group C: Note (4)	Welding set	1	78	78		214	-54.6			3	26	50	Yes
Construction of New Middle Third Tunnel	The tunnel will be constructed by TBM from Shatin sde, hence, airborne noise impact from the construction of new middle third tunnel will not affect the NSRs at Kowloon side													
Enlargement of Existing Kowloon bound Tunnel	Work Zone is located beyond 300m from the NSR													
Rehabilitation of Existing Shatin Bound Tunnel	Work Zone is located beyond 300m from the NSR													
Construction of New Vehicular Bridge next to Existing K7A Vehicular Bridge	Group A: CNP 048	Mobile Crane	1	112	112	NWS	172	-52.7			3	62	50	No
	Group B: CNP 064	Drill, percussive, hand-held (electric)	1	103	103		172	-52.7			3	53	50	No
	Group C: Other PME	Electric Wrench (Drill, hand-held (battery))	1	89	89		172	-52.7			3	39	50	Yes
	Group D: Note (4)	Welding set	1	78	78		172	-52.7			3	28	50	Yes

- Note :
- (1) Reference is made to the PME listed in the GW-TM or the QPME or "other commonly used PME" listed in EPD web pages
  - (2) PME in separated groups will not be operated at the same time
  - (3) For conservative approach, the shortest distance between the work zone and the NSR is assumed for noise assessment.
  - (4) The SWL of Welding Set refer to the approved EIA Report of Sheung Shui to Lok Ma Chau Spur Line (AEIAR-052/2002)
  - (5) For work zones inside tunnel, distance between tunnel portal and NSR is adopted for the noise assessment.
  - (6) For each type of construction activity, only one group of the PMEs will be concurrently in use at the site.