

Appendix 4.2 Construction Plant Inventory (Unmitigated Scenario)

1. Road Works

1a - Road Widening

PME	TM Ref./ other Ref ^{[1][2]}	No. of Items	SWL/ Item dB(A)	Utilization Rate (%)	Sub-total SWL, dB(A)
Lorry	CNP 141	1	112	100%	112
Excavator	CNP 081	1	112	100%	112
Generator, Silenced	CNP 102	1	100	100%	100
Breaker, hand-held, mass > 10kg and < 20kg	CNP 024	1	108	100%	108
Dump Truck	CNP 067	1	117	100%	117
Total SWL					120

1b - Road paving

PME	TM Ref./ other Ref ^{[1][2]}	No. of Items	SWL/ Item dB(A)	Utilization Rate (%)	Sub-total SWL, dB(A)
Asphalt paver	CNP 004	1	109	100%	109
Road Roller	CNP 185	1	108	100%	108
Dump Truck	CN 067	1	117	50%	114
Paint line marker	CNP 161	1	90	100%	90
Total SWL					116

1c - Piers

PME	TM Ref./ other Ref ^{[1][2]}	No. of Items	SWL/ Item dB(A)	Utilization Rate (%)	Sub-total SWL, dB(A)
Generator, Silenced	CNP 102	1	100	100%	100
Air compressor, air flow > 10m ³ /min and <= 30m ³ /min	CNP 002	2	102	100%	105
Concrete pump, stationary/lorry mounted	CNP 047	1	109	50%	106
Poker, vibratory, hand-held	CNP 170	1	113	50%	110
Lorry	CNP 141	1	112	100%	112
Crane, mobile/barge mounted (diesel)	CNP 048	1	112	100%	112
Bar bender and cutter (electric)	CNP 021	1	90	80%	89
Total SWL					117

1d - Bridge Decks

PME	TM Ref./ other Ref ^{[1][2]}	No. of Items	SWL/ Item dB(A)	Utilization Rate (%)	Sub-total SWL, dB(A)
Generator, Silenced	CNP 102	1	100	100%	100
Air compressor, air flow > 10m ³ /min and <= 30m ³ /min	CNP 002	2	102	100%	105
Concrete pump, stationary/lorry mounted	CNP 047	1	109	50%	106
Poker, vibratory, hand-held	CNP 170	1	113	50%	110
Lorry	CNP 141	1	112	100%	112
Crane, mobile/barge mounted (diesel)	CNP 048	1	112	100%	112
Bar bender and cutter (electric)	CNP 021	1	90	80%	89
Total SWL					117

2. Demolition

PME	TM Ref./ other Ref ^{[1][2]}	No. of Items	SWL/ Item dB(A)	Utilization Rate (%)	Sub-total SWL, dB(A)
Lorry	CNP 141	1	112	100%	112
Generator, Silenced	CNP 102	1	100	100%	100
Air compressor, air flow > 10m ³ /min and <= 30m ³ /min	CNP 002	1	102	100%	102
Saw, circular, wood	CNP 201	1	108	100%	108
Total SWL					114

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3. Geotechnical Work

PME	TM Ref./ other Ref ^{[1][2]}	No. of Items	SWL/ Item dB(A)	Utilization Rate (%)	Sub-total SWL, dB(A)
Excavator, mini-robot mounted	OCUPME-16	1	94	70%	92
Generator, Silenced	CNP 102	1	100	70%	98
Air compressor, air flow > 10m ³ /min and <= 30m ³ /min	CNP 002	1	102	70%	100
Piling, vibrating hammer	OCUPME-26	1	115	50%	112
Concrete pump, stationary/lorry mounted	CNP 047	1	109	50%	106
Poker, vibratory, hand-held	CNP 170	1	113	50%	110
Lorry	CNP 141	1	112	100%	112
Crane, mobile/barge mounted (diesel)	CNP 048	1	112	50%	109
Bar bender and cutter (electric)	CNP 021	1	90	80%	89
Total SWL					117

4. Pile Wall Construction

PME	TM Ref./ other Ref ^{[1][2]}	No. of Items	SWL/ Item dB(A)	Utilization Rate (%)	Sub-total SWL, dB(A)
Crane, mobile/barge mounted (diesel)	CNP 048	1	112	50%	109
Drill rig, rotary type (diesel)	OCUPME-15	1	110	50%	107
Rock drill, crawler mounted (hydraulic)	CNP 182	1	123	50%	120
Lorry	CNP 141	1	112	100%	112
Air compressor, air flow > 10m ³ /min and <= 30m ³ /min	CNP 002	1	102	70%	100
Excavator/loader, wheeled/tracked	CNP 081	1	112	50%	109
Concrete pump, stationary/lorry mounted	CNP 047	1	109	50%	106
Total SWL					122

Remarks

[1] Reference of CNP refers to Table 3 of EPD's Technical Memorandum on Noise from Construction Work Other Than Percussive Piling.

[2] Reference of OCUPME refer to EPD's guidance "Sound power levels of other commonly used PME"

(https://www.epd.gov.hk/epd/sites/default/files/epd/english/application_for_licences/guidance/files/OtherSWLe.pdf).