

Appendix 4.10 Construction Plant Inventory during Non-restricted Hours (Mitigated Scenario)

1a - Site Clearance / Set-up / Plant Mobilization / Tree Felling and Transplanting Works

PME	TM Ref./other Ref ^{[1][2][3]}	No. of Items	SW L/ Item dB(A)	On-time %	Barrier Correction	Sub-total SW L
Excavator	EPD-08247	2	87	80%	-5	84
Saw, circular, wood	CNP 201	1	108	70%	-10	96
Mobile Crane	EPD-05797	1	91	80%	-5	85
Loader	EPD-09366	1	100	70%	-5	93
Lorry	OCUPME-44	1	105	30%	-10	90
Breaker, hand-held, mass <= 10kg	EPD-08911	1	99	80%	-10	88
Total SW L						99

1b - Site Clearance / Set-up / Plant Mobilization

PME	TM Ref./other Ref ^{[1][2][3]}	No. of Items	SW L/ Item dB(A)	On-time %	Barrier Correction	Sub-total SW L
Excavator	EPD-08247	2	87	80%	-5	84
Mobile Crane	EPD-05797	1	91	80%	-5	85
Loader	EPD-09366	1	100	70%	-5	93
Lorry	OCUPME-44	1	105	30%	-10	90
Total SW L						96

2a - Utilities Protection and Diversion Works

PME	TM Ref./other Ref ^{[1][2][3]}	No. of Items	SW L/ Item dB(A)	On-time %	Barrier Correction	Sub-total SW L
Excavator	EPD-08247	2	87	80%	-5	84
Mobile Crane	EPD-05797	1	91	80%	-5	85
Loader	EPD-09366	1	100	70%	-5	93
Lorry	OCUPME-44	1	105	30%	-10	90
Total SW L						96

2b - Utilities Protection and Diversion Works

PME	TM Ref./other Ref ^{[1][2][3]}	No. of Items	SW L/ Item dB(A)	On-time %	Barrier Correction	Sub-total SW L
Group A^[4]						
Excavator	EPD-08247	2	87	80%	-5	84
Mobile Crane	EPD-05797	1	91	80%	-5	85
Loader	EPD-09366	1	100	70%	-5	93
Lorry	OCUPME-44	1	105	30%	-10	90
SW L (Group)						96
Group B^[4]						
Generator, Silenced	EPD-08951	2	80	100%	-15	68
Bar bender and cutter (electric)	CNP 021	1	90	100%	-10	80
Saw, circular, wood	CNP 201	1	108	70%	-10	96
SW L (Group)						97
Group C^[4]						
Breaker, hand-held, mass <= 10kg	EPD-08911	1	99	80%	-10	88
Concrete lorry mixer	CNP 044	1	109	70%	-10	97
Concrete mixer	CNP 045	1	96	70%	-10	84
Concrete Pump	CNP 047	1	109	70%	-15	92
Poker, vibratory, hand-held	OCUPME-27	2	102	70%	-10	93
SW L (Group)						100
Max. SW L						100

3a - Slopework

PME	TM Ref./other Ref ^{[1][2][3]}	No. of Items	SW L/ Item dB(A)	On-time %	Barrier Correction	Sub-total SW L
Excavator	EPD-08247	2	87	80%	-5	84
Generator, Silenced	EPD-08951	2	80	100%	-15	68
Air Compressor	EPD-07503	2	92	100%	-15	80
Drilling Rig	OCUPME-15	1	110	80%	-15	94
Grout Mixer	OCUPME-21	1	90	80%	-15	74
Grout Pump	OCUPME-22	1	105	80%	-15	89
Lorry	OCUPME-44	1	105	30%	-10	90
Total SW L						97

Appendix 4.10 Construction Plant Inventory during Non-restricted Hours (Mitigated Scenario)

3b - Slopework

PME	TM Ref / other Ref ^{[1][2][3]}	No. of Items	SW L / Item dB(A)	On-time %	Barrier Correction	Sub-total SW L
Excavator	EPD-08247	1	87	80%	-5	81
Generator, Silenced	EPD-08951	1	80	100%	-15	65
Air Compressor	EPD-07503	1	92	100%	-15	77
Drilling Rig	OCUPME-15	1	110	80%	-15	94
Grout Mixer	OCUPME-21	1	90	80%	-15	74
Grout Pump	OCUPME-22	1	105	80%	-15	89
Lorry	OCUPME-44	1	105	30%	-10	90
					Total SW L	97

3c - Reinstatement of Slope

PME	TM Ref / other Ref ^{[1][2][3]}	No. of Items	SW L / Item dB(A)	On-time %	Barrier Correction	Sub-total SW L
Excavator	EPD-08247	1	87	80%	-5	81
Generator, Silenced	EPD-08951	2	80	100%	-15	68
Air Compressor	EPD-07503	2	92	100%	-15	80
Roller, vibratory	EPD-09720	1	94	90%	-5	89
Lorry	OCUPME-44	1	105	30%	-10	90
					Total SW L	93

4a - Piling Works

PME	TM Ref / other Ref ^{[1][2][3]}	No. of Items	SW L / Item dB(A)	On-time %	Barrier Correction	Sub-total SW L
General						
Generator, Silenced	EPD-08951	2	80	100%	-15	68
Air Compressor	EPD-07503	1	92	100%	-15	77
Water Pump, submersible (electric)	CNP 283	1	85	100%	-10	75
Crane	EPD-07647	1	92	80%	-5	86
					SW L (General)	87
Group A^[4]						
Piling, large diameter bored, reverse circulation drill	CNP 166	1	100	80%	-5	94
Breaker, hand-held, mass <= 10kg	EPD-08911	1	99	80%	-10	88
Backhoe	EPD-08247	2	87	80%	-5	84
Lorry	OCUPME-44	1	105	30%	-10	90
					SW L (Group)	96
Group B^[4]						
Concrete lorry mixer	CNP 044	1	109	70%	-10	97
					SW L (Group)	97
					Total SW L (General + Group B)	98

4b - Piling Works at SMRC

PME	TM Ref / other Ref ^{[1][2][3]}	No. of Items	SW L / Item dB(A)	On-time %	Barrier Correction	Sub-total SW L
General						
Generator, Silenced	EPD-08951	4	80	100%	-15	71
Air Compressor	EPD-07503	4	92	100%	-15	83
Crane	EPD-07647	1	92	80%	-5	86
Barge	CNP 061	1	104	30%	0	99
Water Pump, submersible (electric)	CNP 283	4	85	100%	-10	81
Welding Set	[5]	1	78	100%	-10	68
					SW L (General)	99
Group A^[4]						
Silent Piling by Press-in Method	[6]	1	94	50%	-10	81
Piling, large diameter bored, reverse circulation drill	CNP 166	1	100	80%	-5	94
Breaker, hand-held, mass <= 10kg	EPD-08911	1	99	80%	-10	88
Backhoe	EPD-08247	1	87	80%	-5	81
Dump Truck	OCUPME-46	1	105	30%	-10	90
					SW L (Group)	96
Group B^[4]						
Concrete lorry mixer	CNP 044	1	109	70%	-10	97
					SW L (Group)	97
					Total SW L (General + Group B)	101

Appendix 4.10 Construction Plant Inventory during Non-restricted Hours (Mitigated Scenario)

5a - Pile Caps and Piers

PME	TM Ref./ other Ref ^{[1][2][3]}	No. of Items	SW L/ Item dB(A)	On-time %	Barrier Correction	Sub-total SW L
General						
Generator, Silenced	EPD-08951	2	80	100%	-15	68
Air Compressor	EPD-07503	1	92	100%	-15	77
Crane	EPD-07647	1	92	80%	-5	86
Breaker, hand-held, mass <= 10kg	EPD-08911	1	99	80%	-10	88
Lorry	OCUPME-44	1	105	30%	-10	90
Backhoe	EPD-08247	1	87	80%	-5	81
					SW L (General)	93
Group A^[4]						
Bar bender and cutter (electric)	CNP 021	1	90	100%	-10	80
Saw, circular, wood	CNP 201	1	108	70%	-10	96
					SW L (Group)	97
Group B^[4]						
Concrete lorry mixer	CNP 044	1	109	70%	-10	97
Concrete Pump	CNP 047	1	109	70%	-15	92
Poker, vibratory, hand-held	OCUPME-27	1	102	70%	-10	90
					SW L (Group)	99
					Total SW L (General + Group B)	100

5b - Pile Caps and Piers at SMRC

PME	TM Ref./ other Ref ^{[1][2][3]}	No. of Items	SW L/ Item dB(A)	On-time %	Barrier Correction	Sub-total SW L
General						
Generator, Silenced	EPD-08951	4	80	100%	-15	71
Air Compressor	EPD-07503	4	92	100%	-15	83
Crane	EPD-07647	1	92	80%	-5	86
Barge	CNP 061	1	104	30%	0	99
Water Pump, submersible (electric)	CNP 283	4	85	100%	-10	81
Breaker, hand-held, mass <= 10kg	EPD-08911	1	99	80%	-10	88
Lorry	OCUPME-44	1	105	30%	-10	90
Backhoe	EPD-08247	1	87	80%	-5	81
					SW L (General)	100
Group A^[4]						
Bar bender and cutter (electric)	CNP 021	1	90	100%	-10	80
Saw, circular, wood	CNP 201	1	108	70%	-10	96
					SW L (Group)	97
Group B^[4]						
Concrete lorry mixer	CNP 044	1	109	70%	-10	97
Concrete mixer	CNP 045	1	96	70%	-10	84
Concrete Pump	CNP 047	1	109	70%	-15	92
Poker, vibratory, hand-held	OCUPME-27	2	102	70%	-10	93
					SW L (Group)	100
					Total SW L (General + Group B)	103

Appendix 4.10 Construction Plant Inventory during Non-restricted Hours (Mitigated Scenario)

6a - Bridge Deck

PME	TM Ref./other Ref. ^{[1][2][3]}	No. of Items	SW L/Item dB(A)	On-time %	Barrier Correction	Sub-total SW L
Generator, Silenced	EPD-08951	4	80	100%	-15	71
Launching Gantry	[8]	1	100	80%	0	99
Crane	EPD-07647	1	92	80%	-5	86
Lorry	OCUPME-44	1	105	30%	-10	90
Total SW L						100

6b - Bridge Deck at SMRC

PME	TM Ref./other Ref. ^{[1][2][3]}	No. of Items	SW L/Item dB(A)	On-time %	Barrier Correction	Sub-total SW L
General						
Generator, Silenced	EPD-08951	4	80	100%	-15	71
Launching Gantry	[8]	1	100	80%	0	99
Crane	EPD-07647	1	92	80%	-5	86
Barge	CNP 061	1	104	30%	0	99
Water Pump, submersible (electric)	CNP 283	4	85	100%	-10	81
Lorry	OCUPME-44	1	105	30%	-10	90
SW L (General)						102
Group A^[4]						
Bar bender and cutter (electric)	CNP 021	1	90	100%	-10	80
Saw, circular, wood	CNP 201	1	108	70%	-10	96
SW L (Group)						97
Group B^[4]						
Concrete lorry mixer	CNP 044	1	109	70%	-10	97
Concrete mixer	CNP 045	1	96	70%	-10	84
Concrete Pump	CNP 047	1	109	70%	-15	92
Poker, vibratory, hand-held	OCUPME-27	2	102	70%	-10	93
SW L (Group)						100
Total SW L (General + Group B)						104

7a - Roadworks, Drainage & Utilities

PME	TM Ref./other Ref. ^{[1][2][3]}	No. of Items	SW L/Item dB(A)	On-time %	Barrier Correction	Sub-total SW L
Excavator	EPD-08247	1	87	80%	-5	81
Generator, Silenced	EPD-08951	2	80	100%	-15	68
Mobile Crane	EPD-05797	1	91	80%	-5	85
Lorry	OCUPME-44	1	105	30%	-10	90
Total SW L						91

7b - Roadworks, Drainage & Utilities

PME	TM Ref./other Ref. ^{[1][2][3]}	No. of Items	SW L/Item dB(A)	On-time %	Barrier Correction	Sub-total SW L
General						
Generator, Silenced	EPD-08951	2	80	100%	-15	68
Air Compressor	EPD-07503	2	92	100%	-15	80
Crawler Crane, mobile (diesel)	[10]	1	102	50%	-5	94
Water Pump, submersible (electric)	CNP 283	4	85	100%	-10	81
Lorry	OCUPME-44	1	105	30%	-10	90
Dump Truck	OCUPME-46	1	105	30%	-10	90
SW L (General)						97
Group A^[4]						
Cutter, circular, steel	OCUPME-12	1	112	70%	-10	100
Silent Piling by Press-in Method	[6]	1	94	50%	-10	81
SW L (Group)						100
Group B^[4]						
Backhoe	EPD-08247	4	87	80%	-5	87
Roller, vibratory	EPD-09720	2	94	90%	-5	92
SW L (Group)						93
Total SW L (General + Group A)						102

7c - Roadworks, Drainage, E&M Works

PME	TM Ref./other Ref. ^{[1][2][3]}	No. of Items	SW L/Item dB(A)	On-time %	Barrier Correction	Sub-total SW L
Excavator	EPD-08247	1	87	80%	-5	81
Generator, Silenced	EPD-08951	2	80	100%	-15	68
Mobile Crane	EPD-05797	1	91	80%	-5	85
Lorry	OCUPME-44	1	105	30%	-10	90
Total SW L						91

Appendix 4.10 Construction Plant Inventory during Non-restricted Hours (Mitigated Scenario)

8 - Pavement

PME	TM Ref./other Ref ^{[1][2][3]}	No. of Items	SW L/ Item dB(A)	On-time %	Barrier Correction	Sub-total SW L
Group A^[4]						
Generator, Silenced	EPD-08951	2	80	100%	-15	68
Mobile Crane	EPD-05797	1	91	80%	-5	85
Lorry	OCUPME-44	1	105	30%	-10	90
Paint line marker	OCUPME-30	1	87	80%	-5	81
					SW L (Group)	91
Group B^[4]						
Asphalt Paver	EPD-01226R	1	104	70%	-10	92
Roller, vibratory	EPD-09720	1	94	90%	-5	89
					SW L (Group)	94
					Max. SW L	94

9 - Roadworks & Pavement

PME	TM Ref./other Ref ^{[1][2][3]}	No. of Items	SW L/ Item dB(A)	On-time %	Barrier Correction	Sub-total SW L
Group A^[4]						
Excavator	EPD-08247	1	87	80%	-5	81
Generator, Silenced	EPD-08951	2	80	100%	-15	68
Mobile Crane	EPD-05797	1	91	80%	-5	85
Lorry	OCUPME-44	1	105	30%	-10	90
Paint line marker	OCUPME-30	1	87	80%	-5	81
					SW L (Group)	92
Group B^[4]						
Asphalt Paver	EPD-01226R	1	104	70%	-10	92
Roller, vibratory	EPD-09720	1	94	90%	-5	89
					SW L (Group)	94
					Max. SW L	94

10a - Modification of Existing Bridge Structure of Tsing Sha Highway for Connection

PME	TM Ref./other Ref ^{[1][2][3]}	No. of Items	SW L/ Item dB(A)	On-time %	Barrier Correction	Sub-total SW L
Generator, Silenced	EPD-08951	2	80	100%	-15	68
Air Compressor	EPD-07503	2	92	100%	-15	80
Mobile crane	EPD-05797	1	91	80%	-5	85
Hydraulic Crusher	[7]	2	94	50%	-5	89
Breaker, hand-held, mass >10kg and < 20kg	EPD-08911	1	99	50%	-10	86
Dump truck with grab	OCUPME-47	1	105	30%	-10	90
					Total SW L	94

10b - Modification of Existing Lion Bridge Structures for Slip Road Connection

PME	TM Ref./other Ref ^{[1][2][3]}	No. of Items	SW L/ Item dB(A)	On-time %	Barrier Correction	Sub-total SW L
Generator, Silenced	EPD-08951	2	80	100%	-15	68
Air Compressor	EPD-07503	2	92	100%	-15	80
Mobile crane	EPD-05797	1	91	80%	-5	85
Hydraulic Crusher	[7]	2	94	50%	-5	89
Breaker, hand-held, mass >10kg and < 20kg	EPD-08911	1	99	50%	-10	86
Dump truck with grab	OCUPME-47	1	105	30%	-10	90
					Total SW L	94

11a - Temporary Removal of Existing Noise Barrier / Enclosure

PME	TM Ref./other Ref ^{[1][2][3]}	No. of Items	SW L/ Item dB(A)	On-time %	Barrier Correction	Sub-total SW L
Generator, Silenced	EPD-08951	2	80	100%	-15	68
Air Compressor	EPD-07503	1	92	100%	-15	77
Mobile crane	EPD-05797	1	91	80%	-5	85
Hydraulic Crusher	[7]	1	94	50%	-5	86
Breaker, hand-held, mass >10kg and < 20kg	EPD-08911	1	99	50%	-10	86
Lorry	OCUPME-44	1	105	30%	-10	90
					Total SW L	93

Appendix 4.10 Construction Plant Inventory during Non-restricted Hours (Mitigated Scenario)

11b - Temporary Removal of Existing Noise Barrier

PME	TM Ref./ other Ref ^{[1][2][3]}	No. of Items	SW L/ Item dB(A)	On-time %	Barrier Correction	Sub-total SW L
Generator, Silenced	EPD-08951	2	80	100%	-15	68
Air Compressor	EPD-07503	1	92	100%	-15	77
Mobile crane	EPD-05797	1	91	80%	-5	85
Hydraulic Crusher	[7]	1	94	50%	-5	86
Breaker, hand-held, mass >10kg and < 20kg	EPD-08911	1	99	50%	-10	86
Lorry	OCUPME-44	1	105	30%	-10	90
					Total SW L	93

12a - Re-provision of Noise Barrier / Enclosure

PME	TM Ref./ other Ref ^{[1][2][3]}	No. of Items	SW L/ Item dB(A)	On-time %	Barrier Correction	Sub-total SW L
Lorry	OCUPME-44	1	105	30%	-10	90
Mobile Crane	EPD-05797	1	91	80%	-5	85
					Total SW L	91

12b - Re-provision of Noise Barrier

PME	TM Ref./ other Ref ^{[1][2][3]}	No. of Items	SW L/ Item dB(A)	On-time %	Barrier Correction	Sub-total SW L
Lorry	OCUPME-44	1	105	30%	-10	90
Mobile Crane	EPD-05797	1	91	80%	-5	85
					Total SW L	91

13 - Noise Barriers

PME	TM Ref./ other Ref ^{[1][2][3]}	No. of Items	SW L/ Item dB(A)	On-time %	Barrier Correction	Sub-total SW L
Lorry	OCUPME-44	1	105	30%	-10	90
Mobile Crane	EPD-05797	1	91	80%	-5	85
					Total SW L	91

14 - Noise Barriers / Enclosures

PME	TM Ref./ other Ref ^{[1][2][3]}	No. of Items	SW L/ Item dB(A)	On-time %	Barrier Correction	Sub-total SW L
Cherry Picker	[9]	1	107	50%	-10	94
Lorry	OCUPME-44	2	105	30%	-10	93
Mobile Crane	EPD-05797	2	91	80%	-5	88
Welding Set	[5]	2	78	100%	-10	71
					Total SW L	97

15a - Modification of Existing Reserved T4 Connection Point A (CP-A)

PME	TM Ref./ other Ref ^{[1][2][3]}	No. of Items	SW L/ Item dB(A)	On-time %	Barrier Correction	Sub-total SW L
Generator, Silenced	EPD-08951	2	80	100%	-15	68
Air Compressor	EPD-07503	2	92	100%	-15	80
Mobile crane	EPD-05797	1	91	80%	-5	85
Hydraulic Crusher	[7]	2	94	50%	-5	89
Breaker, hand-held, mass >10kg and < 20kg	EPD-08911	1	99	50%	-10	86
Dump truck with grab	OCUPME-47	1	105	30%	-10	90
					Total SW L	94

15b - Modification of Existing Reserved T4 Connection Point B (CP-B)

PME	TM Ref./ other Ref ^{[1][2][3]}	No. of Items	SW L/ Item dB(A)	On-time %	Barrier Correction	Sub-total SW L
Generator, Silenced	EPD-08951	2	80	100%	-15	68
Air Compressor	EPD-07503	2	92	100%	-15	80
Mobile crane	EPD-05797	1	91	80%	-5	85
Hydraulic Crusher	[7]	2	94	50%	-5	89
Breaker, hand-held, mass >10kg and < 20kg	EPD-08911	1	99	50%	-10	86
Dump truck with grab	OCUPME-47	1	105	30%	-10	90
					Total SW L	94

Appendix 4.10 Construction Plant Inventory during Non-restricted Hours (Mitigated Scenario)

15c - Modification of Existing Reserved T4 Connection Point C (CP-C)

PME	TM Ref./ other Ref ^{[1][2][3]}	No. of Items	SW L/ Item dB(A)	On-time %	Barrier Correction	Sub-total SW L
Generator, Silenced	EPD-08951	2	80	100%	-15	68
Air Compressor	EPD-07503	2	92	100%	-15	80
Mobile crane	EPD-05797	1	91	80%	-5	85
Hydraulic Crusher	[7]	2	94	50%	-5	89
Breaker, hand-held, mass >10kg and < 20kg	EPD-08911	1	99	50%	-10	86
Dump truck with grab	OCUPME-47	1	105	30%	-10	90
					Total SW L	94

16 - Temporary Works for ELS

PME	TM Ref./ other Ref ^{[1][2][3]}	No. of Items	SW L/ Item dB(A)	On-time %	Barrier Correction	Sub-total SW L
Group A^[4]						
Generator, Silenced	EPD-08951	3	80	100%	-15	70
Air Compressor	EPD-07503	3	92	100%	-15	82
Silent Piling by Press-in Method	[6]	1	94	50%	-10	81
Welding Set	[5]	1	78	100%	-10	68
Crawler Crane, mobile (diesel)	[10]	1	102	50%	-5	94
					SW L (Group)	94
Group B^[4]						
Backhoe	EPD-08247	1	87	80%	-5	81
Generator, Silenced	EPD-08951	3	80	100%	-15	70
Air Compressor	EPD-07503	3	92	100%	-15	82
Welding Set	[5]	1	78	100%	-10	68
Crawler Crane, mobile (diesel)	[10]	1	102	50%	-5	94
Grout Mixer	OCUPME-21	1	90	80%	-15	74
Grout Pump	OCUPME-22	1	105	80%	-15	89
Drill rig, rotary type (diesel)	OCUPME-15	1	110	80%	-15	94
					SW L (Group)	98
					Max. SW L	98

17a - Excavation

PME	TM Ref./ other Ref ^{[1][2][3]}	No. of Items	SW L/ Item dB(A)	On-time %	Barrier Correction	Sub-total SW L
Generator, Silenced	EPD-08951	2	80	100%	-15	68
Crawler Crane, mobile (diesel)	[10]	1	102	50%	-5	94
Water Pump, submersible (electric)	CNP 283	2	85	100%	-10	78
Dump Truck	OCUPME-46	1	105	30%	-10	90
Backhoe	EPD-08247	2	87	80%	-5	84
Hydraulic Crusher	[7]	2	94	50%	-5	89
Welding Set	[5]	6	78	100%	-10	76
					Total SW L	97

Appendix 4.10 Construction Plant Inventory during Non-restricted Hours (Mitigated Scenario)

17b - Excavation

PME	TM Ref./ other Ref. ⁽¹⁾⁽²⁾⁽³⁾	No. of Items	SW L/ Item dB(A)	On-time %	Barrier Correction	Sub-total SW L
General						
Generator, Silenced	EPD-08951	6	80	100%	-15	73
Air Compressor	EPD-07503	3	92	100%	-15	82
Crawler Crane, mobile (diesel)	[10]	2	102	50%	-5	97
Water Pump, submersible (electric)	CNP 283	6	85	100%	-10	83
Dump Truck	OCUPME-46	1	105	30%	-10	90
Crane Lorry	OCUPME-44	1	105	30%	-5	95
					SW L (General)	100
Group A⁽⁴⁾						
Welding Set	[5]	8	78	100%	-10	77
Backhoe	EPD-08247	6	87	80%	-5	89
Hydraulic Crusher	[7]	6	94	50%	-5	94
					SW L (Group)	95
Group B⁽⁴⁾						
Grout Mixer	OCUPME-21	2	90	80%	-15	77
Grout Pump	OCUPME-22	2	105	80%	-15	92
					SW L (Group)	92
					Total SW L (General + Group A)	101

18 - Structures for Depressed Roads

PME	TM Ref./ other Ref. ⁽¹⁾⁽²⁾⁽³⁾	No. of Items	SW L/ Item dB(A)	On-time %	Barrier Correction	Sub-total SW L
Group A⁽⁴⁾						
Generator, Silenced	EPD-08951	2	80	100%	-15	68
Crawler Crane, mobile (diesel)	[10]	1	102	50%	-5	94
Water Pump, submersible (electric)	CNP 283	2	85	100%	-10	78
Lorry	OCUPME-44	1	105	30%	-10	90
Bar bender and cutter (electric)	CNP 021	1	90	100%	-10	80
					SW L (Group)	96
Group B⁽⁴⁾						
Generator, Silenced	EPD-08951	2	80	100%	-15	68
Water Pump, submersible (electric)	CNP 283	2	85	100%	-10	78
Lorry	OCUPME-44	1	105	30%	-10	90
Bar bender and cutter (electric)	CNP 021	1	90	100%	-10	80
Saw, circular, wood	CNP 201	1	108	70%	-10	96
					SW L (Group)	97
Group C⁽⁴⁾						
Generator, Silenced	EPD-08951	2	80	100%	-15	68
Concrete lorry mixer	CNP 044	1	109	70%	-10	97
Concrete Pump	CNP 047	1	109	70%	-15	92
Poker, vibratory, hand-held	OCUPME-27	2	102	70%	-10	93
					SW L (Group)	100
					Max. SW L	100

19 - Construction of Temporary Working Platform

PME	TM Ref./ other Ref. ⁽¹⁾⁽²⁾⁽³⁾	No. of Items	SW L/ Item dB(A)	On-time %	Barrier Correction	Sub-total SW L
Generator, Silenced	EPD-08951	4	80	100%	-15	71
Air Compressor	EPD-07503	4	92	100%	-15	83
Crane	EPD-07647	1	92	80%	-5	86
Barge	CNP 061	1	104	30%	0	99
Water Pump, submersible (electric)	CNP 283	4	85	100%	-10	81
Welding Set	[5]	4	78	100%	-10	74
Backhoe	EPD-08247	2	87	80%	-5	84
Lorry	OCUPME-44	1	105	30%	-10	90
Silent Piling by Press-in Method	[6]	1	94	50%	-10	81
Hydraulic Crusher	[7]	2	94	50%	-5	89
					Total SW L	100

Appendix 4.10 Construction Plant Inventory during Non-restricted Hours (Mitigated Scenario)

20 - Associated Structures for Cycle Track and Footpath

PME	TM Ref./ other Ref ^{[1][2][3]}	No. of Items	SW L/ Item dB(A)	On-time %	Barrier Correction	Sub-total SW L
General						
Generator, Silenced	EPD-08951	1	80	100%	-15	65
Crawler Crane, mobile (diesel)	[10]	1	102	50%	-5	94
Water Pump, submersible (electric)	CNP 283	2	85	100%	-10	78
Lorry	OCUPME-44	1	105	30%	-10	90
					SW L (General)	95
Group A^[4]						
Bar bender and cutter (electric)	CNP 021	1	90	100%	-10	80
Saw, circular, wood	CNP 201	1	108	70%	-10	96
					SW L (Group)	97
Group B^[4]						
Concrete lorry mixer	CNP 044	1	109	70%	-10	97
Concrete Pump	CNP 047	1	109	70%	-15	92
Poker, vibratory, hand-held	OCUPME-27	2	102	70%	-10	93
					SW L (Group)	100
					Total SW L (General + Group B)	101

21 - Cycle Track, Footpath and Landscape Works

PME	TM Ref./ other Ref ^{[1][2][3]}	No. of Items	SW L/ Item dB(A)	On-time %	Barrier Correction	Sub-total SW L
Excavator	EPD-08247	2	87	80%	-5	84
Generator, Silenced	EPD-08951	2	80	100%	-15	68
Mobile Crane	EPD-05797	1	91	80%	-5	85
Lorry	OCUPME-44	1	105	30%	-10	90
					Total SW L	92

22 - Structures for Underpass and Depressed Roads

PME	TM Ref./ other Ref ^{[1][2][3]}	No. of Items	SW L/ Item dB(A)	On-time %	Barrier Correction	Sub-total SW L
Group A^[4]						
Generator, Silenced	EPD-08951	2	80	100%	-15	68
Crawler Crane, mobile (diesel)	[10]	1	102	50%	-5	94
Water Pump, submersible (electric)	CNP 283	2	85	100%	-10	78
Lorry	OCUPME-44	1	105	30%	-10	90
Bar bender and cutter (electric)	CNP 021	1	90	100%	-10	80
Saw, circular, wood	CNP 201	1	108	70%	-10	96
					SW L (Group)	99
Group B^[4]						
Generator, Silenced	EPD-08951	2	80	100%	-15	68
Concrete lorry mixer	CNP 044	1	109	70%	-10	97
Concrete Pump	CNP 047	1	109	70%	-15	92
Poker, vibratory, hand-held	OCUPME-27	2	102	70%	-10	93
					SW L (Group)	100
					Max. SW L	100

23 - Associated Structures (Stairs & Lifts)

PME	TM Ref./ other Ref ^{[1][2][3]}	No. of Items	SW L/ Item dB(A)	On-time %	Barrier Correction	Sub-total SW L
General						
Generator, Silenced	EPD-08951	2	80	100%	-15	68
Crane	EPD-07647	1	92	80%	-5	86
Lorry	OCUPME-44	1	105	30%	-10	90
Welding Set	[5]	2	78	100%	-10	71
					SW L (General)	91
Group A^[4]						
Generator, Silenced	EPD-08951	1	80	100%	-15	65
Bar bender and cutter (electric)	CNP 021	1	90	100%	-10	80
Saw, circular, wood	CNP 201	1	108	70%	-10	96
					SW L (Group)	97
Group B^[4]						
Concrete lorry mixer	CNP 044	1	109	70%	-10	97
Concrete Pump	CNP 047	1	109	70%	-15	92
Poker, vibratory, hand-held	OCUPME-27	2	102	70%	-10	93
					SW L (Group)	100
					Total SW L (General + Group B)	100

Appendix 4.10 Construction Plant Inventory during Non-restricted Hours (Mitigated Scenario)

24 - Temporary Realignment

PME	TM Ref./other Ref ^{[1][2][3]}	No. of Items	SW L/Item dB(A)	On-time %	Barrier Correction	Sub-total SW L
Generator, Silenced	EPD-08951	2	80	100%	-15	68
Mobile Crane	EPD-05797	1	91	80%	-5	85
Hydraulic Crusher	[7]	1	94	50%	-5	86
Excavator	EPD-08247	1	87	80%	-5	81
Roller, vibratory	EPD-09720	1	94	90%	-5	89
Lorry	OCUPME-44	1	105	30%	-10	90
Loader	EPD-09366	1	100	70%	-5	93
Asphalt Paver	EPD-01226R	1	104	70%	-10	92
Paint line marker	OCUPME-30	1	87	80%	-5	81
Total SW L						98

25 - Permanent Structures supporting Sha Tin Road

PME	TM Ref./other Ref ^{[1][2][3]}	No. of Items	SW L/Item dB(A)	On-time %	Barrier Correction	Sub-total SW L
General						
Generator, Silenced	EPD-08951	2	80	100%	-15	68
Mobile Crane	EPD-05797	1	91	80%	-5	85
Lorry	OCUPME-44	1	105	30%	-10	90
Breaker, hand-held, mass <= 10kg	EPD-08911	2	99	80%	-10	91
SW L (General)						94
Group A^[4]						
Bar bender and cutter (electric)	CNP 021	2	90	100%	-10	83
Saw, circular, wood	CNP 201	1	108	70%	-10	96
SW L (Group)						97
Group B^[4]						
Concrete lorry mixer	CNP 044	2	109	70%	-10	100
Concrete mixer	CNP 045	1	96	70%	-10	84
Concrete Pump	CNP 047	2	109	70%	-15	95
Poker, vibratory, hand-held	OCUPME-27	2	102	70%	-10	93
SW L (Group)						102
Total SW L (General + Group B)						103

26 - Retaining Structures for At-grade Road

PME	TM Ref./other Ref ^{[1][2][3]}	No. of Items	SW L/Item dB(A)	On-time %	Barrier Correction	Sub-total SW L
Group A^[4]						
Generator, Silenced	EPD-08951	1	80	100%	-15	65
Mobile Crane	EPD-05797	1	91	80%	-5	85
Water Pump, submersible (electric)	CNP 283	1	85	100%	-10	75
Lorry	OCUPME-44	1	105	30%	-10	90
Bar bender and cutter (electric)	CNP 021	1	90	100%	-10	80
Saw, circular, wood	CNP 201	1	108	70%	-10	96
SW L (Group)						98
Group B^[4]						
Concrete lorry mixer	CNP 044	1	109	70%	-10	97
Concrete Pump	CNP 047	1	109	70%	-15	92
Poker, vibratory, hand-held	OCUPME-27	2	102	70%	-10	93
SW L (Group)						100
Max. SW L						100

27 - Retaining Structures for At-grade Road on top of Underpass

PME	TM Ref./other Ref ^{[1][2][3]}	No. of Items	SW L/Item dB(A)	On-time %	Barrier Correction	Sub-total SW L
Group A^[4]						
Generator, Silenced	EPD-08951	1	80	100%	-15	65
Mobile Crane	EPD-05797	1	91	80%	-5	85
Water Pump, submersible (electric)	CNP 283	1	85	100%	-10	75
Lorry	OCUPME-44	1	105	30%	-10	90
Bar bender and cutter (electric)	CNP 021	1	90	100%	-10	80
Saw, circular, wood	CNP 201	1	108	70%	-10	96
SW L (Group)						98
Group B^[4]						
Concrete lorry mixer	CNP 044	1	109	70%	-10	97
Concrete Pump	CNP 047	1	109	70%	-15	92
Poker, vibratory, hand-held	OCUPME-27	1	102	70%	-10	90
SW L (Group)						99
Max. SW L						99

Appendix 4.10 Construction Plant Inventory during Non-restricted Hours (Mitigated Scenario)

28 - Removal of Existing Noise Barrier along Sha Tin Road

PME	TM Ref./ other Ref ^{[1][2][3]}	No. of Items	SW L/ Item dB(A)	On-time %	Barrier Correction	Sub-total SW L
Generator, Silenced	EPD-08951	3	80	100%	-15	70
Air Compressor	EPD-07503	2	92	100%	-15	80
Mobile crane	EPD-05797	1	91	80%	-5	85
Hydraulic Crusher	[7]	2	94	50%	-5	89
Breaker, hand-held, mass > 10kg and < 20kg	EPD-08911	2	99	50%	-10	89
Lorry	OCUPME-44	1	105	30%	-10	90
Total SW L						95

29 - Frame

PME	TM Ref./ other Ref ^{[1][2][3]}	No. of Items	SW L/ Item dB(A)	On-time %	Barrier Correction	Sub-total SW L
Cherry Picker	[9]	1	107	50%	-10	94
Lorry	OCUPME-44	2	105	30%	-10	93
Mobile Crane	EPD-05797	2	91	80%	-5	88
Welding Set	[5]	2	78	100%	-10	71
Total SW L						97

30 - Panel

PME	TM Ref./ other Ref ^{[1][2][3]}	No. of Items	SW L/ Item dB(A)	On-time %	Barrier Correction	Sub-total SW L
Lorry	OCUPME-44	1	105	30%	-10	90
Mobile Crane	EPD-05797	1	91	80%	-5	85
Total SW L						91

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).
- [3] Reference of quiet plant refer to the information relating to Quality Powered Mechanical Equipment (QPME) available at EPD's website.
- [4] Only one PME Group will be operating at the same time.
- [5] Reference is made to the approved EIA Report of Road Works at West Kowloon (EIA-175/2009).
- [6] Reference is made to EPD website on 'Quieter Construction Methods'.
(https://www.epd.gov.hk/epd/misc/construction_noise/contents/index.php/en/foundation-works/item/27-press-in-method.html)
- [7] Reference is made to EPD website on 'Quieter Construction Equipment'.
(https://www.epd.gov.hk/epd/misc/construction_noise/contents/index.php/en/demolition/item/51-hydraulic-crusher.html)
- [8] Reference is made to the approved EIA Report of Route 9 between Tsing Yi and Cheung Sha Wan (EIA-025/1999).
- [9] Reference is made to the approved EIA Report of Sha Tin Cavern Sewage Treatment Works (EIA-240/2016).
- [10] Reference is made to the approved EIA Report of West Island Line (EIA-153/2008).