

Project : Planning and Engineering Study on Development of Lok Ma Chau Loop - Investigation
Title : SWLs of PME

PME	% Operation	Corr. dB(A)	Unmitigated SWLs					Quiet Plant				Mitigated Scenario							
			ID	Description	Power rating Size, wieght	PME SWL dB(A)	Unmitigated SWL, dB(A) [1]	ID	Power rating Size, wieght	PME SWL dB(A)	Quiet Plant SWL, dB(A) [1]	Enclosure dB(A)	Barrier dB(A)	Acoustic Mat, dB(A)	Total Reduction, dB(A)	Mitigated SWL, dB(A) [1]			
Air Compressor (CNP002) (100%)	100	0	CNP002	Air compressor, air flow > 10m3/min and =< 30 m3/min	-	102	102												
Asphalt Paver (CNP004) (100%)	100	0	CNP004	Asphalt paver	-	109	109	EPD-01226	VOLVO, Model #:ABG5770	104	104	-15	-5		-5		-5		99
Hand Held Breaker (CNP023) (100%)	100	0	CNP023	Breaker, hand held, mass < 15kg	-	108	108								-10		-10		98
Bar Bender and Cutter (Electric) (CNP021) (100%)	100	0	CNP021	Bar bender and cutter (electric)	-	90	90												90
Bulldozer (CNP030) (100%)	100	0	CNP030	Bulldozer	-	115	115	N/A	HYPER, Model #:TD2	106	106		-5		-5		-5		101
Concrete Lorry Mixer (CNP044) (100%)	100	0	CNP044	Concrete lorry mixer	-	109	109								-5		-5		104
Concrete pump (CNP047) (100%)	100	0	CNP047	Concrete pump, stationary / lorry mounted	-	109	109								-10		-10		99
Mobile Crane (CNP048) (100%)	100	0	CNP048	Crane, mobile / barge mounted (diesel), P >55	-	102	102	EPD-01159	KOBELCO, Model #:CKE800-1F	102	102		-5		-5		-5		97
Compactor, vibratory (CNP050) (100%)	100	0	CNP050	Compactor, vibratory	-	105	105	EPD-00085	DYNAPAC, Model #:LF 62	102	102		-10		-10		-10		92
Dump Truck (CNP068) (100%)	100	0	CNP069	Dump truck (5.5 tonne < gross vehicle weight <=38 tonne	-	105	105								-5		-5		100
Excavator (CNP081) (100%)	100	0	CNP081	Excavator / loader, wheeled / tracked	-	112	112	EPD-01176	JCB, Model #:8016	93	93		-5		-5		-5		88
Backhoe (CNP081) (100%)	100	0	CNP081	Excavator / loader, wheeled / tracked	-	112	112	EPD-01176	JCB, Model #:8016	93	93		-5		-5		-5		88
Generator (CNP103) (100%)	100	0	CNP103	Generator, super silenced, 70dB(A) at 7m	-	95	95	EPD-01249	AIRMAN, Model #:SDG60S-3A6	90	90	-15			-15		-15		75
Motor Grader (CNP104) (100%)	100	0	CNP104	Grader	-	113	113												113
Generator (CNP101) (100%)	100	0	CNP101	Generator, standard	-	108	108								-15		-15		93
Grout Mixer (CNP105) (100%)	100	0	CNP105	Grout mixer	-	90	90								-10		-10		80
Grout Pump (CNP 106) (100%)	100	0	CNP106	Grout pump	-	105	105								-10		-10		95
Hoist, Petrol (CNP123) (100%)	100	0	CNP123	Hoist, passenger / material (petrol)	-	104	104												104
Lorry, Crane/Grab (CNP145) (100%)	100	0	CNP145	Lorry	-	105	105								-5		-5		100
Piling, Large Diameter Bored, rcd (CNP166) (100%)	100	0	CNP166	Piling, large dia bored, RCD	-	100	100												100
Vibratory Poker (CNP170) (100%)	100	0	CNP170	Poker, vibratory, hand held	-	113	113	CPME#	Poker, vibratroy, hand held	102	102		-10		-10		-10		92
Rock Drill (pneumatic) (CNP181) (100%)	100	0	CNP181	Rock drill, crawler mounted (pneumatic)	-	128	128								-10		-10		118
Roller (CNP185) (100%)	100	0	CNP185	Road Roller	-	108	108	EPD-01183	HITACHI, Model #:CP220-3	97	97								97
Saw, Concrete (100%)	100	0	CNP203	Saw / groover, concrete (petrol)	-	115	115								-5		-5		110
Electric Saw (CNP202) (100%)	100	0	CNP202	Saw, chain, hand-held	-	114	114								-5		-5		109
Water pump (CNP281) (Electric) (100%)	100	0	CNP281	Water pump (electric)	-	88	88								-5		-5		83
Vertical band drain installation rig (100%)	100	0			-	112	112								-5		-5		107

Note: [1] SWL with utilisation rates adjustment