

**Appendix 4.7 Construction Plant Inventory (Mitigated)**

PME Group	Sub-Group <sup>[1]</sup>	Powered Mechanical Equipment (PME)	Reference	SWL, dB(A)	Number of Units	% of Utilization	Adjustments Barrier, dB(A) <sup>[3]</sup>	SWL, dB(A) (PME Group)	SWL, dB(A) (Activity) <sup>[1]</sup>	
Site Clearance / Formation (A)	A-1	Excavator/loader, wheeled/tracked	CNP 081 <sup>[2]</sup>	112	2	50		112	116	
		Crane, mobile/barge mounted (diesel)	CNP 048 <sup>[2]</sup>	112	2	50		112		
		Generator, standard	CNP 101 <sup>[2]</sup>	108	1	100		108		
		Water pump (electric)	CNP 281 <sup>[2]</sup>	88	1	100		88		
	A-2	Dump truck, gross vehicle weight > 38 tonne	CNP 067 <sup>[2]</sup>	117	2	50		117	118	
		Generator, standard	CNP 101 <sup>[2]</sup>	108	1	100		108		
Water pump (electric)		CNP 281 <sup>[2]</sup>	88	1	100		88			
Site Clearance / Formation (A1)	A1-1	Excavator/loader, wheeled/tracked	CNP 081 <sup>[2]</sup>	112	1	50		109	112	
		Generator, standard	CNP 101 <sup>[2]</sup>	108	1	100		108		
		Water pump (electric)	CNP 281 <sup>[2]</sup>	88	1	100		88		
	A1-2	Dump truck, gross vehicle weight > 38 tonne	CNP 067 <sup>[2]</sup>	117	1	50		114	115	
		Generator, standard	CNP 101 <sup>[2]</sup>	108	1	100		108		
		Water pump (electric)	CNP 281 <sup>[2]</sup>	88	1	100		88		
Demolition (Crushers) (B)	B-1	Concrete crusher, hand-held	CNP 053 <sup>[2]</sup>	97	8	80		105	113	
		Excavator/loader, wheeled/tracked	CNP 081 <sup>[2]</sup>	112	1	70		110		
		Generator, standard	CNP 101 <sup>[2]</sup>	108	1	100		108		
		Water pump (electric)	CNP 281 <sup>[2]</sup>	88	1	100		88		
	B-2	Crane, mobile/barge mounted (diesel)	CNP 048 <sup>[2]</sup>	112	1	70		110	112	
		Generator, standard	CNP 101 <sup>[2]</sup>	108	1	100		108		
		Water pump (electric)	CNP 281 <sup>[2]</sup>	88	1	100		88		
	B-3	Dump truck, gross vehicle weight > 38 tonne	CNP 067 <sup>[2]</sup>	117	1	30		112	113	
		Generator, standard	CNP 101 <sup>[2]</sup>	108	1	100		108		
		Water pump (electric)	CNP 281 <sup>[2]</sup>	88	1	100		88		
	Demolition (Breakers) (C)	C-1	Breaker, excavator mounted (hydraulic)	CNP 028 <sup>[2]</sup>	122	8	80	-5	125	125
			Excavator/loader, wheeled/tracked	CNP 081 <sup>[2]</sup>	112	2	70		113	
Generator, standard			CNP 101 <sup>[2]</sup>	108	1	100		108		
Water pump (electric)			CNP 281 <sup>[2]</sup>	88	1	100		88		
C-2		Crane, mobile/barge mounted (diesel)	CNP 048 <sup>[2]</sup>	112	2	70		113	115	
		Generator, standard	CNP 101 <sup>[2]</sup>	108	1	100		108		
		Water pump (electric)	CNP 281 <sup>[2]</sup>	88	1	100		88		
C-3		Dump truck, gross vehicle weight > 38 tonne	CNP 067 <sup>[2]</sup>	117	2	50		117	118	
		Generator, standard	CNP 101 <sup>[2]</sup>	108	1	100		108		
		Water pump (electric)	CNP 281 <sup>[2]</sup>	88	1	100		88		
Demolition (Breakers) (C1)		C1-1	Breaker, excavator mounted (hydraulic)	CNP 028 <sup>[2]</sup>	122	1	80	-5	116	118
			Excavator/loader, wheeled/tracked	CNP 081 <sup>[2]</sup>	112	1	70		110	
	Generator, standard		CNP 101 <sup>[2]</sup>	108	1	100		108		
	Water pump (electric)		CNP 281 <sup>[2]</sup>	88	1	100		88		
	C1-2	Crane, mobile/barge mounted (diesel)	CNP 048 <sup>[2]</sup>	112	1	70		110	112	
		Generator, standard	CNP 101 <sup>[2]</sup>	108	1	100		108		
		Water pump (electric)	CNP 281 <sup>[2]</sup>	88	1	100		88		
	C1-3	Dump truck, gross vehicle weight > 38 tonne	CNP 067 <sup>[2]</sup>	117	1	50		114	115	
		Generator, standard	CNP 101 <sup>[2]</sup>	108	1	100		108		
		Water pump (electric)	CNP 281 <sup>[2]</sup>	88	1	100		88		
	Piling (D)	D-1	Drill rig, rotary type (diesel)	CNP 072 <sup>[2]</sup>	110	8	90		119	122
			Crane, mobile/barge mounted (diesel)	CNP 048 <sup>[2]</sup>	112	8	70		119	
Generator, standard			CNP 101 <sup>[2]</sup>	108	1	100		108		
Water pump (electric)			CNP 281 <sup>[2]</sup>	88	1	100		88		
D-2		Piling, large diameter bored, reverse circulation drill	CNP 166 <sup>[2]</sup>	100	8	90		109	120	
		Crane, mobile/barge mounted (diesel)	CNP 048 <sup>[2]</sup>	112	8	70		119		
		Generator, standard	CNP 101 <sup>[2]</sup>	108	1	100		108		
		Water pump (electric)	CNP 281 <sup>[2]</sup>	88	1	100		88		
D-3		Grout mixer	CNP 105 <sup>[2]</sup>	90	1	50		87	109	
		Grout pump	CNP 106 <sup>[2]</sup>	105	1	50		102		
		Generator, standard	CNP 101 <sup>[2]</sup>	108	1	100		108		
		Water pump (electric)	CNP 281 <sup>[2]</sup>	88	1	100		88		
Piling (D1)	D1-1	Drill rig, rotary type (diesel)	CNP 072 <sup>[2]</sup>	110	1	90		110	114	
		Crane, mobile/barge mounted (diesel)	CNP 048 <sup>[2]</sup>	112	1	70		110		
		Generator, standard	CNP 101 <sup>[2]</sup>	108	1	100		108		
		Water pump (electric)	CNP 281 <sup>[2]</sup>	88	1	100		88		
	D1-2	Piling, large diameter bored, reverse circulation drill	CNP 166 <sup>[2]</sup>	100	1	90		100	113	
		Crane, mobile/barge mounted (diesel)	CNP 048 <sup>[2]</sup>	112	1	70		110		
		Generator, standard	CNP 101 <sup>[2]</sup>	108	1	100		108		
	D1-3	Grout mixer	CNP 105 <sup>[2]</sup>	90	1	50		87	109	
		Grout pump	CNP 106 <sup>[2]</sup>	105	1	50		102		
		Generator, standard	CNP 101 <sup>[2]</sup>	108	1	100		108		
		Water pump (electric)	CNP 281 <sup>[2]</sup>	88	1	100		88		
	Superstructure (E)	E-1	Concrete lorry mixer	CNP 044 <sup>[2]</sup>	109	3	50		111	114
Crane, mobile/barge mounted (diesel)			CNP 048 <sup>[2]</sup>	112	1	50		109		
Generator, standard			CNP 101 <sup>[2]</sup>	108	1	100		108		
E-2		Poker, vibratory, hand-held	CNP 170 <sup>[2]</sup>	113	2	50		113	114	
		Bar bender and cutter (electric)	CNP 021 <sup>[2]</sup>	90	1	50		87		
		Generator, standard	CNP 101 <sup>[2]</sup>	108	1	100		108		
E-3		Crane, mobile/barge mounted (diesel)	CNP 048 <sup>[2]</sup>	112	1	50		109	112	
		Generator, standard	CNP 101 <sup>[2]</sup>	108	1	100		108		
Roadworks (F)	F-1	Concrete lorry mixer	CNP 044 <sup>[2]</sup>	109	1	50		106	115	
		Poker, vibratory, hand-held	CNP 170 <sup>[2]</sup>	113	1	70		111		
		Generator, standard	CNP 101 <sup>[2]</sup>	108	1	100		108		
		Chipper, hand-held (pneumatic)	CNP 043 <sup>[2]</sup>	112	1	60		110		
	F-2	Roller, vibratory	CNP 186 <sup>[2]</sup>	108	1	60		106	110	
		Generator, standard	CNP 101 <sup>[2]</sup>	108	1	100		108		
	F-3	Excavator/loader, wheeled/tracked	CNP 081 <sup>[2]</sup>	112	1	70		110	113	
		Crane, mobile/barge mounted (diesel)	CNP 048 <sup>[2]</sup>	112	1	70		110		
	Pipe works (G)	G-1	Breaker, mini-robot mounted (electric)	CNP 031 <sup>[2]</sup>	115	1	70		113	115
			Generator, standard	CNP 101 <sup>[2]</sup>	108	1	100		108	
			Water pump (electric)	CNP 281 <sup>[2]</sup>	88	1	100		88	
		G-2	Excavator/loader, wheeled/tracked	CNP 081 <sup>[2]</sup>	112	1	70		110	112
Generator, standard			CNP 101 <sup>[2]</sup>	108	1	100		108		
Water pump (electric)			CNP 281 <sup>[2]</sup>	88	1	100		88		

Remarks:  
 [1] Only one Sub-Group in a PME Group will be operating at the same time.  
 [2] Reference of CNP refers to Table 3 of EPD's Technical Memorandum on Noise from Construction Work Other Than Percussive Piling.  
 [3] 5 dB(A) noise reduction assumed for use of movable noise barrier.