



Appendix 4.8 Plant Inventory (Mitigated Scenario)

Location	Work Zone	Activity Index	Reference Code	Activities	No. of plant item	Utilisation rate	Type of Noise Control	Noise Reduction, dB(A)	Unit SWL, dB(A)	SWL, dB(A)	Total SWL, dB(A)	Max SWL, dB(A)											
				<u>Group C</u> Lorry, gross vehicle weight > 38 tonne Generator, super silenced, 70dB(A) at 7m Water pump, submersible (electric)	2 2 2	20% 100% 100%			112 95 85	108 98 88	108												
				Z3a-2		<u>Piling Works [1]</u> <u>Group A</u> Generator, super silenced, 70dB(A) at 7m Water pump, submersible (electric) Air Compressor, air flow > 10m <sup>3</sup> /min and < =30m <sup>3</sup> /min Piling, large diameter bored, oscillator	1 1 1 2	100% 100% 70% 70%	Movable Noise Barrier Noise Insulating Fabric	-10	95 85 102 115	95 85 90 106	107		109								
						<u>Group B</u> Generator, super silenced, 70dB(A) at 7m Water pump, submersible (electric) Air Compressor, air flow > 10m <sup>3</sup> /min and < =30m <sup>3</sup> /min Piling, large diameter bored, reverse circulation drill	1 1 1 2	100% 100% 70% 70%	Movable Noise Barrier	-10	95 85 102 100	95 85 90 101	103										
						<u>Group C</u> Generator, super silenced, 70dB(A) at 7m Water pump, submersible (electric) Crane, mobile Dump truck, 5.5 tonne < gross vehicle weight ≤ 38 tonne	1 1 2 2	100% 100% 60% 60%	Movable Noise Barrier	-5	95 85 101 105	95 85 97 106	107										
						<u>Group D</u> Generator, super silenced, 70dB(A) at 7m Water pump, submersible (electric) Concrete lorry mixer Concrete pump (stationary) Grout pump Grout mixer	1 1 2 2 2 2	100% 100% 40% 40% 50% 50%	Movable Noise Barrier Movable Noise Barrier	-10 -10	95 85 109 109 105 90	95 85 108 98 95 80	109										
						Z3a-3		<u>Construction of Pile Cap [1]</u> <u>Group A</u> Crane, mobile Excavator, wheeled/tracked Generator, super silenced, 70dB(A) at 7m Water pump, submersible (electric)	1 1 1 1	70% 50% 100% 100%	Movable Noise Barrier Movable Noise Barrier	-5 -5	101 97 95 85	94 92 95 85	99								
								<u>Group B</u> Dump truck, 5.5 tonne < gross vehicle weight ≤ 38 tonne Generator, super silenced, 70dB(A) at 7m Water pump, submersible (electric)	2 1 1	60% 100% 100%			105 95 85	106 95 85	106								
								<u>Group C</u> Generator, super silenced, 70dB(A) at 7m Water pump, submersible (electric) Concrete lorry mixer Poker, vibratory, hand-held (electric) Concrete pump (stationary)	1 1 1 1 1	100% 100% 40% 30% 30%	Movable Noise Barrier	-5 -10	95 85 109 102 109	95 85 105 92 94	106								
								Z3a-4		<u>Construction of Pier [1]</u> <u>Group A</u> Crane, mobile Forklift, LPG, output power ≤ 32kW, speed ≤ 10km/hr Generator, super silenced, 70dB(A) at 7m	2 2 1	70% 70% 100%	Movable Noise Barrier Movable Noise Barrier	-5 -5	101 104 95	97 100 95	103						
										<u>Group B</u> Generator, super silenced, 70dB(A) at 7m Concrete lorry mixer Poker, vibratory, hand-held (electric) Concrete pump (stationary)	1 2 2 2	100% 40% 40% 40%	Movable Noise Barrier	-5 -10	95 109 102 109	95 108 96 98	109						
										Z3a-5		<u>Construction of Viaduct Structure [1]</u> <u>Group A</u> Lorry, gross vehicle weight > 38 tonne <u>Group B</u> Generator, super silenced, 70dB(A) at 7m Concrete lorry mixer Poker, vibratory, hand-held (electric) Concrete pump (stationary)	2 1 1 1 1	20% 100% 40% 40% 40%	Movable Noise Barrier	-10	112 95 109 102 109	108 85 105 98 105	108				
				<u>Group C</u> Crane, mobile Launching Gantry	2 1							80% 80%	Movable Noise Barrier	-5	101 100	98 99	102						
				Z3a-6								<u>Construction of Temporary bridge [1]</u> <u>Group A</u> Generator, super silenced, 70dB(A) at 7m Water pump, submersible (electric) Crane, mobile Lorry, with crane, 5.5 tonne < gross vehicle weight ≤ 38 tonne	1 1 1 2 2	100% 100% 50% 50%	Movable Noise Barrier	-5	95 85 101 105	95 85 96 105	106				
												<u>Group B</u> Generator, super silenced, 70dB(A) at 7m Water pump, submersible (electric) Drill rig, rotary type (diesel)	1 1 4	100% 100% 70%	Noise Insulating Fabric	-10	95 85 110	95 85 104	105				
												<u>Group C</u> Generator, super silenced, 70dB(A) at 7m Water pump, submersible (electric) Lorry, gross vehicle weight > 38 tonne	1 1 2	100% 100% 20%	Movable Noise Barrier	-5	95 85 112	95 85 100	104				
						Viaduct between TUM & A16	Z2b.1 & Z2b.2					Z2b-1	<u>Construction of Temporary Platform [1]</u> <u>Group A</u> Crane, mobile Lorry, with crane, 5.5 tonne < gross vehicle weight ≤ 38 tonne Generator, super silenced, 70dB(A) at 7m Water pump, submersible (electric)	2 2 2 2	50% 50% 100% 100%	Movable Noise Barrier Movable Noise Barrier Movable Noise Barrier	-5 -5 -10	101 105 95 85	96 100 88 78	102			
													<u>Group B</u> Generator, super silenced, 70dB(A) at 7m Water pump, submersible (electric) Drill rig, rotary type (diesel)	2 2 3	100% 100% 70%	Movable Noise Barrier Movable Noise Barrier Noise Insulating Fabric	-10 -10 -10	95 85 110	88 78 103	103			
													<u>Group C</u> Lorry, gross vehicle weight > 38 tonne Generator, super silenced, 70dB(A) at 7m Water pump, submersible (electric)	1 2 2	20% 100% 100%	Movable Noise Barrier Movable Noise Barrier	-5 -10	112 95 85	100 88 78	100			
								Z2b-2						<u>Piling Works [1]</u> <u>Group A</u> Generator Water pump, submersible (electric) Air Compressor Piling, large diameter bored, oscillator	1 1 1 1	100% 100% 70% 70%	Noise Enclosure Movable Noise Barrier Noise Enclosure Noise Insulating Fabric	-15 -10 -15 -10	88 85 98 115	73 75 81 103	103		
														<u>Group B</u> Generator Water pump, submersible (electric) Air Compressor Piling, large diameter bored, reverse circulation drill	1 1 1 1	100% 100% 70% 70%	Noise Enclosure Movable Noise Barrier Noise Enclosure	-15 -10 -15	88 85 98 100	73 75 81 98	99		
										<u>Group C</u> Generator Water pump, submersible (electric) Crane, mobile Dump truck, 5.5 tonne < gross vehicle weight ≤ 38 tonne	1 1 2 2			100% 100% 60% 60%	Noise Enclosure Movable Noise Barrier Movable Noise Barrier	-15 -10 -5	88 85 101 105	73 75 97 101	102				
										<u>Group D</u> Generator Water pump, submersible (electric) Concrete lorry mixer Concrete pump (stationary) Grout pump Grout mixer	1 1 1 1 1 1			100% 100% 40% 40% 50% 50%	Noise Enclosure Movable Noise Barrier Movable Noise Barrier Movable Noise Barrier Movable Noise Barrier	-15 -10 -5 -10 -10	88 85 109 109 105 90	73 75 100 95 92 77	102				
				Z2b-3							<u>Construction of Pile Cap [1]</u> <u>Group A</u> Crane, mobile Excavator, wheeled/tracked Generator, super silenced, 70dB(A) at 7m Water pump, submersible (electric)			1 1 1 1	70% 50% 100% 100%	Movable Noise Barrier Movable Noise Barrier Movable Noise Barrier Movable Noise Barrier	-5 -5 -10 -10	101 97 95 85	94 89 85 75	96			
											<u>Group B</u> Dump truck, 5.5 tonne < gross vehicle weight ≤ 38 tonne			1	60%	Movable Noise Barrier	-5	105	98				



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Location	Work Zone	Activity Index	Reference Code	Activities	No. of plant item	Utilisation rate	Type of Noise Control	Noise Reduction, dB(A)	Unit SWL, dB(A)	SWL, dB(A)	Total SWL, dB(A)	Max SWL, dB(A)						
				Group B EPD-11819 Generator	1	100%	Movable Noise Barrier	-10	88	78	101							
				CNP 283 Water pump, submersible (electric)	1	100%	Movable Noise Barrier	-10	85	75								
				OCUPME-015 Drill rig, rotary type (diesel)	2	70%	Noise Insulating Fabric	-10	110	101								
				Group C EPD-11819 Generator	1	100%	Movable Noise Barrier	-10	88	78								
				CNP 283 Water pump, submersible (electric)	1	100%	Movable Noise Barrier	-10	85	75								
				OCUPME-041 Lorry, gross vehicle weight > 38 tonne	1	20%	Movable Noise Barrier	-5	112	100								
				Z1-N-2				Group A EPD-11819 Generator	1	100%			Noise Enclosure	-15	88	73	103	
								CNP 283 Water pump, submersible (electric)	1	100%			Movable Noise Barrier	-10	85	75		
								EPD-10979 Air Compressor	1	70%			Noise Enclosure	-15	98	81		
								CNP 165 Piling, large diameter bored, oscillator	1	70%			Noise Insulating Fabric	-10	115	103		
Group B EPD-11819 Generator	1	100%	Noise Enclosure					-15	88	73								
CNP 283 Water pump, submersible (electric)	1	100%	Movable Noise Barrier					-10	85	75								
EPD-10979 Air Compressor	1	70%	Noise Enclosure					-15	98	81								
CNP 166 Piling, large diameter bored, reverse circulation drill	1	70%							100	98								
Group C EPD-11819 Generator	1	100%	Noise Enclosure					-15	88	73								
CNP 283 Water pump, submersible (electric)	1	100%	Movable Noise Barrier					-10	85	75								
EPD-10792 Crane, mobile	1	60%	Movable Noise Barrier	-5	101	94												
OCUPME-046 Dump truck, 5.5 tonne < gross vehicle weight ≤ 38 tonne	1	60%	Movable Noise Barrier	-5	105	98												
				Group D EPD-11819 Generator	1	100%	Noise Enclosure	-15	88	73	99							
				CNP 283 Water pump, submersible (electric)	1	100%	Movable Noise Barrier	-10	85	75								
				CNP 044 Concrete lorry mixer	1	40%	Purpose-built Noise Barrier	-10	109	95								
				CNP 047 Concrete pump (stationary)	1	40%	Movable Noise Barrier	-10	109	95								
				OCUPME-022 Grout pump	1	50%	Movable Noise Barrier	-10	105	92								
				OCUPME-021 Grout mixer	1	50%	Movable Noise Barrier	-10	90	77								
				Z1-N-3				Construction of Pile Cap [1] Group A EPD-10792 Crane, mobile	1	70%			Movable Noise Barrier	-5	101	94	96	
								EPD-10780 Excavator, wheeled/tracked	1	50%			Movable Noise Barrier	-5	97	89		
								CNP 103 Generator, super silenced, 70dB(A) at 7m	1	100%			Movable Noise Barrier	-10	95	85		
								CNP 283 Water pump, submersible (electric)	1	100%			Movable Noise Barrier	-10	85	75		
Group B OCUPME-046 Dump truck, 5.5 tonne < gross vehicle weight ≤ 38 tonne	1	60%	Movable Noise Barrier					-5	105	98								
CNP 103 Generator, super silenced, 70dB(A) at 7m	1	100%	Movable Noise Barrier					-10	95	85								
CNP 283 Water pump, submersible (electric)	1	100%	Movable Noise Barrier					-10	85	75								
Group C CNP 103 Generator, super silenced, 70dB(A) at 7m	1	100%	Movable Noise Barrier					-10	95	85								
CNP 283 Water pump, submersible (electric)	1	100%	Movable Noise Barrier					-10	85	75								
CNP 044 Concrete lorry mixer	1	40%	Purpose-built Noise Barrier					-10	109	95								
OCUPME-027 Poker, vibratory, hand-held (electric)	1	30%	Movable Noise Barrier	-5	102	92												
CNP 047 Concrete pump (stationary)	1	30%	Movable Noise Barrier	-10	109	94												
Z1-N-4				Construction of Pier [1] Group A EPD-10792 Crane, mobile	1	70%	Movable Noise Barrier	-5	101	94	99							
				OCUPME-018 Forklift, LPG, output power ≤ 32kW, speed ≤ 10km/hr	1	70%	Movable Noise Barrier	-5	104	97								
				EPD-11819 Generator	1	100%	Movable Noise Barrier	-10	88	78								
				Group B EPD-11819 Generator	1	100%	Movable Noise Barrier	-10	88	78								
				CNP 044 Concrete lorry mixer	1	40%	Movable Noise Barrier	-5	109	100								
				OCUPME-027 Poker, vibratory, hand-held (electric)	1	40%	Movable Noise Barrier	-5	102	93								
				CNP 047 Concrete pump (stationary)	1	40%	Movable Noise Barrier	-10	109	95								
				Z1-N-5				Construction of Viaduct Structure [1] Group A OCUPME-041 Lorry, gross vehicle weight > 38 tonne	1	20%			Movable Noise Barrier	-5	112	100	102	
								Group B EPD-11819 Generator	1	100%			Movable Noise Barrier	-10	88	78		
								CNP 044 Concrete lorry mixer	1	40%			Movable Noise Barrier	-5	109	100		
OCUPME-027 Poker, vibratory, hand-held (electric)	1	40%	Movable Noise Barrier					-5	102	93								
CNP 047 Concrete pump (stationary)	1	40%	Movable Noise Barrier					-10	109	95								
Group C EPD-10792 Crane, mobile	1	80%	Movable Noise Barrier					-5	101	95								
Ref 4 Launching Gantry	1	80%							100	99								
Viaduct between TUM & A16	Z1-5	Z1-5-1						Construction of Temporary Platform [1] Group A EPD-10792 Crane, mobile	2	50%	Movable Noise Barrier	-5	101	96	106			
								OCUPME-044 Lorry, with crane, 5.5 tonne < gross vehicle weight ≤ 38 tonne	2	50%			105	105				
								EPD-11819 Generator	2	100%	Movable Noise Barrier	-10	88	81				
				CNP 283 Water pump, submersible (electric)	2	100%	Movable Noise Barrier	-10	85	78								
				Group B EPD-11819 Generator	2	100%	Movable Noise Barrier	-10	88	81								
				CNP 283 Water pump, submersible (electric)	2	100%	Movable Noise Barrier	-10	85	78								
				OCUPME-015 Drill rig, rotary type (diesel)	5	70%	Noise Insulating Fabric	-10	110	105								
				Group C OCUPME-041 Lorry, gross vehicle weight > 38 tonne	2	20%	Movable Noise Barrier	-5	112	103								
				EPD-11819 Generator	2	100%	Movable Noise Barrier	-10	88	81								
				CNP 283 Water pump, submersible (electric)	2	100%	Movable Noise Barrier	-10	85	78								
				Group A CNP 103 Generator, super silenced, 70dB(A) at 7m	2	100%			95	98	107							
				CNP 283 Water pump, submersible (electric)	2	100%			85	88								
				EPD-10979 Air Compressor	2	70%	Movable Noise Barrier	-10	98	89								
				CNP 165 Piling, large diameter bored, oscillator	2	70%	Noise Insulating Fabric	-10	115	106								
				Group B CNP 103 Generator, super silenced, 70dB(A) at 7m	2	100%			95	98								
				CNP 283 Water pump, submersible (electric)	2	100%			85	88								
				EPD-10979 Air Compressor	2	70%	Noise Enclosure	-15	98	84								
				CNP 166 Piling, large diameter bored, reverse circulation drill	2	70%			100	101								
				Group C CNP 103 Generator, super silenced, 70dB(A) at 7m	2	100%			95	98								
				CNP 283 Water pump, submersible (electric)	2	100%			85	88								
EPD-10792 Crane, mobile	2	60%	Movable Noise Barrier	-5	101	97												
OCUPME-046 Dump truck, 5.5 tonne < gross vehicle weight ≤ 38 tonne	2	60%	Movable Noise Barrier	-5	105	101												
				Group D CNP 103 Generator, super silenced, 70dB(A) at 7m	2	100%			95	98	104							
				CNP 283 Water pump, submersible (electric)	2	100%			85	88								
				CNP 044 Concrete lorry mixer	2	40%	Movable Noise Barrier	-5	109	103								
				CNP 047 Concrete pump (stationary)	2	40%	Movable Noise Barrier	-10	109	98								
				OCUPME-022 Grout pump	2	50%	Movable Noise Barrier	-10	105	95								
				OCUPME-021 Grout mixer	2	50%	Movable Noise Barrier	-10	90	80								
				Z1-5-2				Construction of Pile Cap [1] Group A EPD-10792 Crane, mobile	2	70%					101	102	104	
								EPD-10780 Excavator, wheeled/tracked	2	50%					97	97		
								EPD-11819 Generator	1	100%					88	88		
								CNP 283 Water pump, submersible (electric)	1	100%					85	85		
Group B OCUPME-046 Dump truck, 5.5 tonne < gross vehicle weight ≤ 38 tonne	2	60%							105	106								
EPD-11819 Generator	1	100%							88	88								
CNP 283 Water pump, submersible (electric)	1	100%							85	85								
Group C EPD-11819 Generator	1	100%							88	88								
CNP 283 Water pump, submersible (electric)	1	100%							85	85								
CNP 044 Concrete lorry mixer	1	40%							109	105								
OCUPME-027 Poker, vibratory, hand-held (electric)	1	30%			102	97												
CNP 047 Concrete pump (stationary)	1	30%	Movable Noise Barrier	-10	109	94												
Z1-5-3				Construction of Pier [1] Group A EPD-10792 Crane, mobile	2	70%			101	102	106							
				EPD-10780 Excavator, wheeled/tracked	2	50%			97	97								
				EPD-11819 Generator	1	100%			88	88								
				CNP 283 Water pump, submersible (electric)	1	100%			85	85								
				Group B OCUPME-046 Dump truck, 5.5 tonne < gross vehicle weight ≤ 38 tonne	2	60%			105	106								
				EPD-11819 Generator	1	100%			88	88								
				CNP 283 Water pump, submersible (electric)	1	100%			85	85								
				Group C EPD-11819 Generator	1	100%			88	88								
				CNP 283 Water pump, submersible (electric)	1	100%			85	85								
				CNP 044 Concrete lorry mixer	1	40%			109	105								
OCUPME-027 Poker, vibratory, hand-held (electric)	1	30%			102	97												
CNP 047 Concrete pump (stationary)	1	30%	Movable Noise Barrier	-10	109	94												
Z1-5-4				Construction of Pier [1] Group A							109							



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Location	Work Zone	Activity Index	Reference Code	Activities	No. of plant item	Utilisation rate	Type of Noise Control	Noise Reduction, dB(A)	Unit SWL, dB(A)	SWL, dB(A)	Total SWL, dB(A)	Max SWL, dB(A)							
A16 station	A16S & TMSP	A16N-7	CNP 048	Crane, mobile mounted (diesel)	2	70%	Movable Noise Barrier	-5	112	108	109	103							
			CNP 122	Hoist, passenger/material (electric)	2	70%													
			CNP 065	<u>ABWF and BS works [1]</u> Group A Drill/grinder, hand-held (electric)	2	80%							98	100	100				
			EPD-10792	Crane, mobile	2	70%							101	102	103				
			CNP 122	Hoist, passenger/material (electric)	2	70%							95	96	103				
A16 station	A16S & TMSP	A16S-1	CNP 048	<u>Remove Temporary Platform</u> Crane, mobile mounted (diesel)	1	80%			112	111	112	112							
			OCUPME-046	Dump truck, 5.5 tonne < gross vehicle weight ≤ 38 tonne	1	80%							105	104	112				
		A16S-2	OCUPME-015	<u>GI Works</u> Drill rig, rotary type (diesel)	1	90%			110	110	110	110							
			OCUPME-046	Dump truck, 5.5 tonne < gross vehicle weight ≤ 38 tonne	1	30%							105	100	110				
		A16S-3			<u>Construction of Temporary Platform [1]</u> Group A				Movable Noise Barrier	-10	88	81	102	103					
					EPD-11819	Generator									2	100%	85	88	
					CNP 283	Water pump, submersible (electric)									2	100%	85	88	
					EPD-10792	Crane, mobile									2	50%	101	96	
					OCUPME-044	Lorry, with crane, 5.5 tonne < gross vehicle weight ≤ 38 tonne									2	50%	105	100	
					Group B	EPD-11819									Generator	2	100%	88	81
															CNP 283	Water pump, submersible (electric)	2	100%	85
					Group C	OCUPME-015									Drill rig, rotary type (diesel)	3	70%	110	103
															EPD-11819	Generator	2	100%	88
					Group D	CNP 283									Water pump, submersible (electric)	2	100%	85	88
		OCUPME-041	Lorry, gross vehicle weight > 38 tonne	2			20%	112	103										
		A16S-4			<u>Demolition of existing swimming pool and plant room</u>				Movable Noise Barrier	-5	101	98	114						
					EPD-10792	Crane, mobile								2	80%	102	114		
		A16S-5			<u>Piling Works [1]</u> Group A				Movable Noise Barrier	-5	105	102	114						
					CNP 103	Generator, super silenced, 70dB(A) at 7m								2	100%	95	88		
					CNP 283	Water pump, submersible (electric)								2	100%	85	78		
EPD-10979	Air Compressor				2	70%								101	89				
CNP 165	Piling, large diameter bored, oscillator				3	70%								115	108				
Group B	CNP 103				Generator, super silenced, 70dB(A) at 7m	2								100%	95	88			
					CNP 283	Water pump, submersible (electric)								2	100%	85	78		
Group C	EPD-10979				Air Compressor	2								70%	101	89			
					CNP 166	Piling, large diameter bored, reverse circulation drill								3	70%	100	103		
Group D	CNP 103				Generator, super silenced, 70dB(A) at 7m	2								100%	95	88			
					CNP 283	Water pump, submersible (electric)								2	100%	85	78		
Group E	EPD-10792				Crane, mobile	3								60%	101	99			
					OCUPME-046	Dump truck, 5.5 tonne < gross vehicle weight ≤ 38 tonne								3	60%	105	108		
Group F	CNP 103				Generator, super silenced, 70dB(A) at 7m	2								100%	95	88			
					CNP 283	Water pump, submersible (electric)								2	100%	85	78		
Group G	CNP 044				Concrete lorry mixer	3								40%	109	110			
					CNP 047	Concrete pump (stationary)								3	40%	109	100		
Group H	OCUPME-022				Grout pump	3								50%	105	97			
					OCUPME-021	Grout mixer								3	50%	90	82		
A16S-6						<u>Construction of Pile Cap</u>										Movable Noise Barrier	-5	101	97
		CNP 103	Generator, super silenced, 70dB(A) at 7m	1		100%	95	95											
		CNP 283	Water pump, submersible (electric)	1		100%	85	85											
		EPD-10792	Crane, mobile	2		70%	101	97											
		EPD-10780	Excavator, wheeled/tracked	2		50%	97	92											
		Group I	OCUPME-026	Piling, vibrating hammer		2	50%	115	105										
				OCUPME-046		Dump truck, 5.5 tonne < gross vehicle weight ≤ 38 tonne	2	60%	105	106									
		Group J	CNP 044	Concrete lorry mixer		2	40%	109	103										
				OCUPME-027		Poker, vibratory, hand-held (electric)	2	30%	102	95									
		Group K	CNP 047	Concrete pump (stationary)		2	30%	109	97										

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Viaduct between A16 & TRB	WS4.14, V2, V2.1 & V2.2	V2-1	CNP 048	<b>Site clearance (incl tree felling) for WS 4.14</b>	1	70%	Crane, mobile mounted (diesel)		112	110	115	115						
			CNP 283	Saw, chain, hand-held	1	70%			114	112								
			OCUPME-046	Dump truck, 5.5 tonne < gross vehicle weight ≤ 38 tonne	1	40%			105	101								
		V2-2	CNP 045 CNP 185 OCUPME-046	CNP 048	<b>Reinstatement for WS 4.14 [1]</b> <b>Group A</b>	1	80%	Concrete mixer (electric) Road roller		96	95	107	114					
					1	80%	108			107								
					2	70%	112			113								
		V2-3	CNP 103 CNP 283 EPD-10792 CNP 103 CNP 283 OCUPME-015 CNP 103 CNP 283 OCUPME-044 OCUPME-041	CNP 048	<b>Construction of Temporary Platform [1]</b> <b>Group A</b>	1	100%	Generator, super silenced, 70dB(A) at 7m Water pump, submersible (electric) Crane, mobile	Movable Noise Barrier	-10	95	85	114	111				
					1	100%	85			85								
					1	70%	101			99								
					1	100%	95			85								
					1	100%	85			85								
					2	70%	110			111								
					1	100%	95			85								
					1	100%	85			85								
					1	70%	105			103								
					1	20%	112			105								
					V2-4	CNP 048 OCUPME-046	CNP 048			<b>Remove Temporary Platform</b>	1	80%			Crane, mobile mounted (diesel)		112	111
		1	80%	105				104										
		V2-5	CNP 103 CNP 283 EPD-10979 CNP 165 CNP 103 CNP 283 EPD-10979 CNP 166 CNP 103 CNP 283 EPD-10792 OCUPME-046 CNP 103 CNP 283 CNP 044 CNP 047 OCUPME-022 OCUPME-021	CNP 048	<b>Piling Works (Land and River) [1]</b> <b>Group A</b>	1	100%	Generator, super silenced, 70dB(A) at 7m Water pump, submersible (electric) Air Compressor Piling, large diameter bored, oscillator	Movable Noise Barrier Noise Insulating Fabric	-10	95	85	104	104				
					1	100%	85			85								
					1	70%	98			96								
					1	70%	115			103								
					1	100%	95			85								
					1	100%	85			85								
					1	70%	98			96								
					1	70%	100			98								
					1	100%	95			85								
					1	100%	85			85								
					1	60%	101			94								
					1	60%	105			103								
					1	100%	95			95								
					1	100%	85			85								
					V2-6	CNP 103 EPD-10792 OCUPME-018 CNP 044 OCUPME-027 CNP 047	CNP 048			<b>Construction of Pier (Land and River)</b>	1	100%			Generator, super silenced, 70dB(A) at 7m Crane, mobile Forklift, LPG, output power ≤ 32kW, speed ≤ 10km/hr Concrete lorry mixer Poker, vibratory, hand-held (electric) Concrete pump (stationary)	Movable Noise Barrier Movable Noise Barrier Movable Noise Barrier Movable Noise Barrier	-10	95
		2	70%	101				102										
		2	70%	104				105										
		2	40%	109				108										
		2	40%	102				101										
2	40%	109	108															
V2-7a	OCUPME-041 EPD-11819 CNP 044 OCUPME-027 CNP 047 CNP 048 Ref 4	CNP 048	<b>Construction of Viaduct Structure (excl. last span connection to A16) [1]</b> <b>Group A</b>	2				20%	Lorry, gross vehicle weight > 38 tonne		112	108	108	114				
			1	100%				88			88							
			1	40%				109			105							
			1	40%				102			98							
			1	40%	109	105												
			2	80%	112	114												
V2-7b	OCUPME-041 EPD-11819 CNP 044 OCUPME-027 CNP 047 CNP 048 Ref 4	CNP 048	<b>Construction of Viaduct Structure (last span connection to A16) [1]</b> <b>Group A</b>	1	20%	Lorry, gross vehicle weight > 38 tonne		112	105	108	111							
			1	100%	88			88										
			1	40%	109			105										
			1	40%	102			98										
			1	40%	109			105										
			1	80%	112			111										
V2-8	CNP 065 CNP 048 CNP 122	CNP 048	<b>ABWF works for Degree 1 [1]</b> <b>Group A</b>	1	80%	Drill/grinder, hand-held (electric)		98	97	97	111							
			1	70%	112			110										
			1	70%	95			93										
Tuen Mun River Bridge	TRB	TRB-1a	CNP 103 CNP 283 EPD-10792 OCUPME-044 CNP 103 CNP 283 OCUPME-015 CNP 103 CNP 283 OCUPME-041	<b>Construction of Temporary Platform in 2nd dry season [1]</b> <b>Group A</b>	3	100%	Generator, super silenced, 70dB(A) at 7m Water pump, submersible (electric) Crane, mobile Lorry, with crane, 5.5 tonne < gross vehicle weight ≤ 38 tonne	Noise Insulating Fabric	-10	95	100	110	110					
				3	100%	85			90									
				3	70%	101			104									
				3	70%	105			108									
				3	100%	95			100									
				3	100%	85			90									
				6	70%	110			106									
		TRB-1b	CNP 103 CNP 283 EPD-10792 OCUPME-044 CNP 103 CNP 283 OCUPME-015	CNP 048	<b>Construction of Temporary Platform in 3rd dry season [1]</b> <b>Group A</b>	1	100%	Generator, super silenced, 70dB(A) at 7m Water pump, submersible (electric) Crane, mobile Lorry, with crane, 5.5 tonne < gross vehicle weight ≤ 38 tonne		95	95	105	105					
					1	100%	85			85								
					1	70%	101			99								
		TRB-1c	CNP 103 CNP 283 OCUPME-015	CNP 048	<b>Group B</b>	1	100%	Generator, super silenced, 70dB(A) at 7m Water pump, submersible (electric) Drill rig, rotary type (diesel)	Noise Insulating Fabric	-10	95	95	102	102				
					1	100%	85			85								
					2	70%	110			101								
		TRB-2	CNP 103 CNP 283 OCUPME-041	CNP 048	<b>Group C</b>	1	100%	Generator, super silenced, 70dB(A) at 7m Water pump, submersible (electric)		95	95	105	117					
					1	100%	85			85								
		TRB-3	CNP 103 CNP 283 EPD-10979 CNP 165	CNP 048	<b>Remove Temporary Platform</b>	1	20%	Lorry, gross vehicle weight > 38 tonne		112	105	117	106					
					3	80%	105			109								
TRB-3	CNP 103 CNP 283 EPD-10979 CNP 165	CNP 048	<b>Piling Works [1]</b> <b>Group A</b>	1	100%	Generator, super silenced, 70dB(A) at 7m Water pump, submersible (electric) Air Compressor Piling, large diameter bored, oscillator	Noise Insulating Fabric	-10	95	95	104	104						
			1	100%	85			85										
			1	70%	98			96										
			1	70%	115			103										

Appendix 4.8 Plant Inventory (Mitigated Scenario)

Location	Work Zone	Activity Index	Reference Code	Activities	No. of plant item	Utilisation rate	Type of Noise Control	Noise Reduction, dB(A)	Unit SWL, dB(A)	SWL, dB(A)	Total SWL, dB(A)	Max SWL, dB(A)																																																				
				<b>Group B</b> Generator, super silenced, 70dB(A) at 7m	1	100%			95	95																																																						
				CNP 283	Water pump, submersible (electric)	1			100%	85			85																																																			
				EPD-10979	Air Compressor	1			70%	98			96																																																			
				CNP 166	Piling, large diameter bored, reverse circulation drill	1			70%	100			98																																																			
				<b>Group C</b> Generator, super silenced, 70dB(A) at 7m	1	100%			95	95																																																						
				CNP 283	Water pump, submersible (electric)	1			100%	85			85																																																			
				EPD-10792	Crane, mobile	1			60%	101			99																																																			
				OCUPME-046	Dump truck, 5.5 tonne < gross vehicle weight ≤ 38 tonne	1			60%	105			103																																																			
				<b>Group D</b> Generator, super silenced, 70dB(A) at 7m	1	100%			95	95																																																						
				CNP 283	Water pump, submersible (electric)	1			100%	85			85																																																			
				CNP 044	Concrete lorry mixer	1			40%	109			105																																																			
				CNP 047	Concrete pump (stationary)	1			40%	109			95																																																			
				OCUPME-022	Grout pump	1			50%	105			92																																																			
				OCUPME-021	Grout mixer	1			50%	90			77																																																			
				TRB-4					<b>Construction of Pile Cap</b> Generator, super silenced, 70dB(A) at 7m	1			100%			95	95																																															
				CNP 283	Water pump, submersible (electric)	1			100%	85			85																																																			
				EPD-10792	Crane, mobile	1			70%	101			99																																																			
				EPD-10780	Excavator, wheeled/tracked	1			50%	97			94																																																			
				OCUPME-026	Piling, vibrating hammer	1			50%	115			102																																																			
				OCUPME-046	Dump truck, 5.5 tonne < gross vehicle weight ≤ 38 tonne	1			60%	105			103																																																			
				CNP 044	Concrete lorry mixer	1			40%	109			105																																																			
				OCUPME-027	Poker, vibratory, hand-held (electric)	1			30%	102			97																																																			
				CNP 047	Concrete pump (stationary)	1			30%	109			104																																																			
				CNP 048	Crane, barge mounted (diesel)	1			30%	112			107																																																			
				TRB-5					<b>Construction of pier &amp; pylon</b> Generator, super silenced, 70dB(A) at 7m	1			100%							95	95																																											
				EPD-10792	Crane, mobile	1			70%	101			99																																																			
				OCUPME-018	Forklift, LPG, output power ≤ 32kW, speed ≤ 10km/hr	1			70%	104			102																																																			
				CNP 044	Concrete lorry mixer	1			40%	109			105																																																			
				OCUPME-027	Poker, vibratory, hand-held (electric)	1			40%	102			98																																																			
				CNP 047	Concrete pump (stationary)	1			40%	109			105																																																			
				CNP 049	Crane, tower (electric)	1			70%	95			93																																																			
				TRB-6					<b>Construction of Bridge Structure</b> Generator	1			100%											88	88																																							
				EPD-11819	Concrete lorry mixer	1			40%	109			105																																																			
				CNP 044	Poker, vibratory, hand-held (electric)	1			40%	102			98																																																			
				OCUPME-027	Concrete pump (stationary)	1			40%	109			105																																																			
				CNP 047	Launching Gantry	1			80%	100			99																																																			
				Ref 4	Launching Gantry	1			80%	100			99																																																			
				CNP 061	Derrick barge	2			90%	104			107																																																			
				CNP 221	Tug boat	2			90%	110			113																																																			
				TRB-7					<b>ABWE works for Degree 1 [1]</b> <b>Group A</b> Drill/grinder, hand-held (electric)	1			80%															98	97																																			
				CNP 065	Crane, mobile	1			70%	101			99																																																			
				EPD-10792	Crane, mobile	1			70%	101			99																																																			
				CNP 122	Hoist, passenger/material (electric)	1			70%	95			93																																																			
				V3-1					<b>Site Clearance for WA 5.5, 5.6, 9.1</b> Crane, mobile	3			70%																			-5	101	99																														
				EPD-11819	Generator	1			70%	88			76																																																			
				Ref 1	Electric Chain Saw	3			70%	101			104																																																			
				OCUPME-046	Dump truck, 5.5 tonne < gross vehicle weight ≤ 38 tonne	3			40%	105			101																																																			
				V3-2					<b>Reinstatement for WA 5.5, 5.6, 9.1</b> Concrete mixer (electric)	2			80%																					-10			96	88																										
				EPD-10665	Road Roller	2			80%	94			96																																																			
				EPD-10792	Crane, mobile	3			70%	101			99																																																			
				OCUPME-046	Dump truck, 5.5 tonne < gross vehicle weight ≤ 38 tonne	3			40%	105			101																																																			
				V3-3					<b>Site clearance and Tree felling (or transplant) of Tuen Mun Safety Town</b> Crane, mobile	1			70%																									-10			101	99																						
				EPD-11819	Generator	1			70%	88			76																																																			
				Ref 1	Electric Chain Saw	1			70%	101			99																																																			
				OCUPME-046	Dump truck, 5.5 tonne < gross vehicle weight ≤ 38 tonne	1			50%	105			102																																																			
				V3-4					<b>Reinstatement for of Tuen Mun Safety Town</b> Concrete mixer (electric)	2			80%																													-10			96	88																		
				CNP 045	Road Roller	2			80%	94			96																																																			
				EPD-10665	Crane, mobile mounted (diesel)	1			70%	112			110																																																			
				CNP 048	Dump truck, 5.5 tonne < gross vehicle weight ≤ 38 tonne	1			50%	105			102																																																			
				V3-5					<b>Piling Works [1]</b> <b>Group A</b> Generator, super silenced, 70dB(A) at 7m	1			100%																																	-10			95	95														
				CNP 283	Water pump, submersible (electric)	1			100%	85			85																																																			
				EPD-10979	Air Compressor	1			70%	98			86																																																			
				CNP 165	Piling, large diameter bored, oscillator	1			70%	115			103																																																			
				<b>Group B</b> Generator, super silenced, 70dB(A) at 7m	1	100%			95	95																																																						
				CNP 283	Water pump, submersible (electric)	1			100%	85			85																																																			
				EPD-10979	Air Compressor	1			70%	98			96																																																			
				CNP 166	Piling, large diameter bored, reverse circulation drill	1			70%	100			98																																																			
				<b>Group C</b> Generator, super silenced, 70dB(A) at 7m	1	100%			95	95																																																						
				CNP 283	Water pump, submersible (electric)	1			100%	85			85																																																			
				EPD-10792	Crane, mobile	1			60%	101			94																																																			
				OCUPME-046	Dump truck, 5.5 tonne < gross vehicle weight ≤ 38 tonne	1			60%	105			103																																																			
				<b>Group D</b> Generator, super silenced, 70dB(A) at 7m	1	100%			95	95																																																						
				CNP 283	Water pump, submersible (electric)	1			100%	85			85																																																			
				CNP 044	Concrete lorry mixer	1			40%	109			105																																																			
				CNP 047	Concrete pump (stationary)	1			40%	109			95																																																			
				OCUPME-022	Grout pump	1			50%	105			92																																																			
				OCUPME-021	Grout mixer	1			50%	90			77																																																			
				V3-6					<b>Construction of pile caps at Tuen Mun Safety Town [1]</b> <b>Group A</b> Generator, super silenced, 70dB(A) at 7m	2			100%																																					-5			95	98										
				EPD-10792	Crane, mobile	1			70%	101			94																																																			
				EPD-10780	Excavator, wheeled/tracked	1			50%	97			89																																																			
				<b>Group B</b> Generator, super silenced, 70dB(A) at 7m	2	100%			95	98																																																						
				OCUPME-026	Piling, vibrating hammer	1			50%	115			102																																																			
				<b>Group C</b> Generator, super silenced, 70dB(A) at 7m	2	100%			95	98																																																						
				OCUPME-046	Dump truck, 5.5 tonne < gross vehicle weight ≤ 38 tonne	2			100%	105			103																																																			
				<b>Group D</b> Generator, super silenced, 70dB(A) at 7m	2	100%			95	98																																																						
				CNP 044	Concrete lorry mixer	1			40%	109			100																																																			
				OCUPME-027	Poker, vibratory, hand-held (electric)	1			30%	102			92																																																			
				CNP 047	Concrete pump (stationary)	1			30%	109			94																																																			
				V3-7					<b>Construction of Pier</b> Generator, super silenced, 70dB(A) at 7m	2			100%																																									-5			95	98						
				EPD-10792	Crane, mobile	2			70%	101			97																																																			
				OCUPME-018	Forklift, LPG, output power ≤ 32kW, speed ≤ 10km/hr	2			70%	104			100																																																			
				CNP 044	Concrete lorry mixer	2			40%	109			108																																																			
				OCUPME-027	Poker, vibratory, hand-held (electric)	2			40%	102			96																																																			
				CNP 047	Concrete pump (stationary)	2			40%	109			103																																																			
				V3-8					<b>Construction of Viaduct Structure [1]</b> <b>Group A</b> Lorry, gross vehicle weight > 38 tonne	2			20%																																													-5			112	103		
				OCUPME-041	Generator, super silenced, 70dB(A) at 7m	1			100%	95			95																																																			
				CNP 044	Concrete lorry mixer	1			40%	109			100																																																			
				OCUPME-027	Poker, vibratory, hand-held (electric)	1			40%	102			93																																																			



Appendix 4.8 Plant Inventory (Mitigated Scenario)

Location	Work Zone	Activity Index	Reference Code	Activities	No. of plant item	Utilisation rate	Type of Noise Control	Noise Reduction, dB(A)	Unit SWL, dB(A)	SWL, dB(A)	Total SWL, dB(A)	Max SWL, dB(A)
Crossover	CRO	V3-9	CNP 047	Concrete pump (stationary) Group C	1	40%	Movable Noise Barrier	-10	109	95	103	97
			EPD-10792	Crane, mobile Launching Gantry	2	80%	Movable Noise Barrier	-5	101	98	102	
			CNP 065	ABWF works for Degree 1 [1] Group A Drill/grinder, hand-held (electric) Group B	1	80%			98	97	97	
			EPD-10792	Crane, mobile	1	70%	Movable Noise Barrier	-5	101	94	97	
		CNP 122	Hoist, passenger/material (electric)	1	70%			95	93	97		
		CRO-1	EPD-10792	Tree felling (or transplant) Crane, mobile	1	70%			101	99	105	
		EPD-11819	Generator	1	70%	Movable Noise Barrier	-10	88	76			
		Ref 1	Electric Chain Saw	1	70%	Movable Noise Barrier	-5	101	94			
		OCUPME-046	Dump truck, 5.5 tonne < gross vehicle weight ≤ 38 tonne	1	70%			105	103	105		
		CRO-2	EPD-10792	NF100 Modification work Crane, mobile	1	70%	Movable Noise Barrier	-5	101	94	94	
CRO-3	EPD-10792	Piling Works [1] Group A	2	100%	Movable Noise Barrier	-10	95	88	107			
	CNP 103	Generator, super silenced, 70dB(A) at 7m	2	100%	Movable Noise Barrier	-10	85	78				
	CNP 283	Water pump, submersible (electric)	2	70%	Noise Enclosure	-15	98	84				
	EPD-10979	Air Compressor	2	70%	Noise Enclosure	-15	115	106				
	CNP 165	Piling, large diameter bored, oscillator Group B	2	100%	Movable Noise Barrier	-10	95	88				
	CNP 103	Generator, super silenced, 70dB(A) at 7m	2	100%	Movable Noise Barrier	-10	85	78				
	CNP 283	Water pump, submersible (electric)	2	70%	Noise Enclosure	-15	98	84				
	EPD-10979	Air Compressor	2	70%	Noise Enclosure	-15	100	98				
	CNP 166	Piling, large diameter bored, reverse circulation drill Group C	2	100%	Movable Noise Barrier	-10	95	88				
	CNP 103	Generator, super silenced, 70dB(A) at 7m	2	100%	Movable Noise Barrier	-10	85	78				
	CNP 283	Water pump, submersible (electric)	1	60%	Movable Noise Barrier	-5	101	94				
	EPD-10792	Crane, mobile	1	60%	Movable Noise Barrier	-5	105	103				
	OCUPME-046	Dump truck, 5.5 tonne < gross vehicle weight ≤ 38 tonne Group D	2	100%	Movable Noise Barrier	-10	95	88				
	CNP 103	Generator, super silenced, 70dB(A) at 7m	2	100%	Movable Noise Barrier	-10	85	78				
	CNP 283	Water pump, submersible (electric)	1	40%	Movable Noise Barrier	-5	109	100				
	CNP 044	Concrete lorry mixer	1	40%	Movable Noise Barrier	-10	109	95				
	CNP 047	Concrete pump (stationary)	1	50%	Movable Noise Barrier	-10	105	92				
	OCUPME-022	Grout pump	4	50%	Movable Noise Barrier	-10	90	83				
	OCUPME-021	Grout mixer	1	30%	Movable Noise Barrier	-10	102	102				
	CRO-4	EPD-10792	Construction of Pier [1] Group A	1	70%	Movable Noise Barrier	-5	101		94	102	
EPD-10780		Crane, mobile Excavator, wheeled/tracked	1	50%	Movable Noise Barrier	-5	97	89				
CNP 103		Generator, super silenced, 70dB(A) at 7m	1	100%	Movable Noise Barrier	-10	95	85				
CNP 283		Water pump, submersible (electric)	1	100%	Movable Noise Barrier	-10	85	75				
EPD-10792		Crane, mobile	1	100%	Movable Noise Barrier	-10	95	85				
CNP 103		Generator, super silenced, 70dB(A) at 7m	1	100%	Movable Noise Barrier	-10	85	75				
CNP 283		Water pump, submersible (electric)	1	100%	Movable Noise Barrier	-10	115	102				
OCUPME-026		Piling, vibrating hammer Group C	1	100%	Movable Noise Barrier	-10	95	85				
CNP 103		Generator, super silenced, 70dB(A) at 7m	1	100%	Movable Noise Barrier	-10	85	75				
CNP 283		Water pump, submersible (electric)	1	100%	Movable Noise Barrier	-10	85	75				
OCUPME-046		Dump truck, 5.5 tonne < gross vehicle weight ≤ 38 tonne Group D	1	60%	Movable Noise Barrier	-5	105	98				
CNP 103		Generator, super silenced, 70dB(A) at 7m	1	100%	Movable Noise Barrier	-10	95	85				
CNP 283		Water pump, submersible (electric)	1	100%	Movable Noise Barrier	-10	85	75				
CNP 044		Concrete lorry mixer	1	40%	Movable Noise Barrier	-5	109	100				
OCUPME-027		Poker, vibratory, hand-held (electric)	1	30%	Movable Noise Barrier	-5	102	92				
CNP 047		Concrete pump (stationary)	1	30%	Movable Noise Barrier	-10	109	94				
CRO-5	EPD-10792	Construction of Pier [1] Group A	2	100%	Movable Noise Barrier	-10	95	88	100			
	EPD-10792	Crane, mobile	1	70%	Movable Noise Barrier	-5	101	94				
	OCUPME-018	Forklift, LPG, output power ≤ 32kW, speed ≤ 10km/hr Group B	1	70%	Movable Noise Barrier	-5	104	97				
	CNP 103	Generator, super silenced, 70dB(A) at 7m	2	100%	Movable Noise Barrier	-10	95	88				
	CNP 044	Concrete lorry mixer	1	40%	Movable Noise Barrier	-5	109	105				
	OCUPME-027	Poker, vibratory, hand-held (electric)	1	40%	Movable Noise Barrier	-5	102	93				
	CNP 047	Concrete pump (stationary)	1	40%	Movable Noise Barrier	-10	109	95				
	OCUPME-027	Concrete pump (stationary)	1	40%	Movable Noise Barrier	-10	109	95				
CRO-6	OCUPME-041	Construction of Viaduct Structure [1] Group A	1	20%			112	105	105			
	CNP 103	Lorry, gross vehicle weight > 38 tonne Group B	1	100%			95	95				
	CNP 044	Generator, super silenced, 70dB(A) at 7m	1	40%	Movable Noise Barrier	-5	109	100				
	OCUPME-027	Poker, vibratory, hand-held (electric)	1	40%	Movable Noise Barrier	-5	102	93				
	CNP 047	Concrete pump (stationary) Group C	1	40%	Movable Noise Barrier	-10	109	95				
	EPD-10792	Crane, mobile	1	80%	Movable Noise Barrier	-5	101	95				
	Ref 4	Launching Gantry	1	80%			100	99				
	OCUPME-041	Lorry, gross vehicle weight > 38 tonne	1	20%			112	105				
CRO-7	EPD-10792	ABWF works for Degree 1 [1] Group A	1	80%			98	97	97			
	CNP 065	Drill/grinder, hand-held (electric) Group B	1	80%			98	97				
	EPD-10792	Crane, mobile	1	70%	Movable Noise Barrier	-5	101	94				
	CNP 122	Hoist, passenger/material (electric)	1	70%			95	93				
W2-1	EPD-10792	Precast Loading and Unloading [1] Group A	1	90%			104	104	105			
	CNP 061	Derrick barge	1	90%	Movable Noise Barrier	-5	101	96				
	EPD-10792	Crane, mobile Group B	1	90%	Movable Noise Barrier	-5	101	96				
	OCUPME-041	Lorry, gross vehicle weight > 38 tonne	1	20%			112	105				
W2-2	EPD-10792	Precast Loading and Unloading [1] Group A	1	90%			104	104	105			
	CNP 061	Derrick barge	1	90%	Movable Noise Barrier	-5	101	96				
	EPD-10792	Crane, mobile Group B	1	90%	Movable Noise Barrier	-5	101	96				
	OCUPME-041	Lorry, gross vehicle weight > 38 tonne	1	20%			112	105				
TMS Station	W3, LR, W4a, W4b, W5, W5.6.10, W5.6.5, TMS.1a, TMS.1b, TMS.1c, TMS.1d, TMS.2a & TMS.2b	TMS-1	EPD-10792	Site clearance for W5.6.2b, 6.4 Crane, mobile	1	70%			101	99	103	
			EPD-11819	Generator	1	70%	Movable Noise Barrier	-10	88	76		
			Ref 1	Electric Chain Saw	1	70%	Movable Noise Barrier	-5	101	94		
			OCUPME-046	Dump truck, 5.5 tonne < gross vehicle weight ≤ 38 tonne	1	70%	Movable Noise Barrier	-5	105	98		
		TMS-2	EPD-10792	Light Rail Protection Work Crane, mobile	1	50%	Movable Noise Barrier	-5	101	93	102	
		OCUPME-046	Dump truck, 5.5 tonne < gross vehicle weight ≤ 38 tonne	1	50%	Movable Noise Barrier	-5	105	97			
		CNP 044	Concrete lorry mixer	1	40%	Movable Noise Barrier	-5	109	100			
		TMS-3a	EPD-10792	Tree felling works along Wu King Road (West) [1] Group A	1	70%			101	99	99	
			EPD-11819	Generator Group B	1	70%	Movable Noise Barrier	-10	88	76		
			Ref 1	Electric Chain Saw	1	70%	Movable Noise Barrier	-5	101	94		
OCUPME-046	Dump truck, 5.5 tonne < gross vehicle weight ≤ 38 tonne Group C		1	50%	Movable Noise Barrier	-5	105	97				
TMS-3b	EPD-10792	Realignment of Wu King Road (West) [1] Group A	1	50%	Purpose-built Noise Barrier + breaker hammer bracket	-15	122	104	104			
	CNP 028	Breaker, excavator mounted (hydraulic) Group B	1	50%	Movable Noise Barrier	-10	95	85				
	CNP 103	Generator, super silenced, 70dB(A) at 7m Ref 3	2	70%	Purpose-built Noise Barrier	-10	106	97				



## Appendix 4.8 Plant Inventory (Mitigated Scenario)

Location	Work Zone	Activity Index	Reference Code	Activities	No. of plant item	Utilisation rate	Type of Noise Control	Noise Reduction, dB(A)	Unit SWL, dB(A)	SWL, dB(A)	Total SWL, dB(A)	Max SWL, dB(A)
			OCUPME-046	Dump truck, 5.5 tonne < gross vehicle weight ≤ 38 tonne <u>Group C</u>	2	70%	Movable Noise Barrier	-5	105	101	102	
			CNP 103	Generator, super silenced, 70dB(A) at 7m	1	100%	Movable Noise Barrier	-10	95	85		
			CNP 283	Water pump, submersible (electric)	1	100%	Movable Noise Barrier	-10	85	75		
			CNP 044	Concrete lorry mixer	2	40%	Purpose-built Noise Barrier	-10	109	98		
			OCUPME-027	Poker, vibratory, hand-held (electric)	2	40%	Movable Noise Barrier	-5	102	96		
			CNP 047	Concrete pump (stationary)	2	40%	Movable Noise Barrier	-10	109	98	102	
		TMS-11		<b>Other External Works [1]</b> <u>Group A</u>								99
			CNP 103	Generator, super silenced, 70dB(A) at 7m	1	100%	Movable Noise Barrier	-10	95	85		
			EPD-10792	Crane, mobile	1	70%	Movable Noise Barrier	-5	101	94		
			EPD-10780	Excavator, wheeled/tracked	1	50%	Movable Noise Barrier	-5	97	89	96	
				<u>Group B</u>								
			CNP 103	Generator, super silenced, 70dB(A) at 7m	1	100%	Movable Noise Barrier	-10	95	85		
			OCUPME-046	Dump truck, 5.5 tonne < gross vehicle weight ≤ 38 tonne <u>Group C</u>	1	70%	Movable Noise Barrier	-5	105	98	99	
			CNP 103	Generator, super silenced, 70dB(A) at 7m	1	100%	Movable Noise Barrier	-10	95	85		
			CNP 044	Concrete lorry mixer	1	40%	Purpose-built Noise Barrier	-10	109	95		
			OCUPME-027	Poker, vibratory, hand-held (electric)	1	40%	Movable Noise Barrier	-5	102	93		
			CNP 047	Concrete pump (stationary)	1	40%	Movable Noise Barrier	-10	109	95	99	
		TMS-12		<b>ABWF works for Degree 1/ ABWF and BS works [1]</b> <u>Group A</u>								97
			CNP 065	Drill/grinder, hand-held (electric)	1	80%			98	97	97	
				<u>Group B</u>								
			EPD-10792	Crane, mobile	1	70%	Movable Noise Barrier	-5	101	94		
			CNP 122	Hoist, passenger/material (electric)	1	70%			95	93	97	

[1] Only 1 group of PME will be operated at the same time. Maximum of sub-SWL is adopted as conservative approach.

[2] ) Lorry, gross vehicle weight > 38 tonnes would be used for delivery/transportation of pre-cast units only. Lorry's engine would be switched off immediately once arriving the loading/unloading position. Therefore, it is anticipated that the use of utilization rate of 20% for the Lorry, gross vehicle weight > 38 tonnes is considered a conservative assumption.