

Appendix 4.09 Construction Plant Inventory under Mitigated Scenario

Construction Plant Inventory (Mitigated Scenario)

Activity ID	Activity Name	PME	No. of Plant	30-min Usage	PME ID	SWL / item, dB(A)	SWL, dB(A)	Barrier Corr., dB(A)	SWL / Activity, dB(A)
RELOCATION OF SHA TIN SEWAGE TREATMENT WORKS TO CAVERNS									
Package 1 - Construction of Tunnels and Caverns for relocated STSTW									
<i>Access Road for Magazine at A Kung Kok Road</i>									
<i>Construction of Temporary Haul Road</i>									
M1010	Mobilisation and site clearance	excavator lorry dump truck	2 2 2	50% 50% 50%	BS D3/35 BS D9/24 BS D9/24	106 104 104	106 104 104	0 0 0	110
M1020	Site Formation and Platform Erection for Works Area	excavator lorry dump truck	3 3 3	50% 50% 50%	BS D3/35 BS D9/24 BS D9/24	106 104 104	108 106 106	0 0 0	111
M1030	Formation of Temporary Haul Road (incl temp slope works)	excavator lorry dump truck	3 3 3	50% 50% 50%	BS D3/35 BS D9/24 BS D9/24	106 104 104	108 106 106	0 0 0	111
<i>Construction of Access Road</i>									
M1040	Piling Foundation for Retaining Wall	drilling rig piling rig water pump crawler crane bar bender and cutter concrete pump generator concrete lorry mixer air compressor	4 4 4 2 2 2 2 3 2	50% 50% 50% 50% 30% 50% 100% 50% 50%	BS C2/43 BS C3/14 CNP 281 BS D7/112 CNP 021 BS C4/21 CNP 103 BS D6/33 CNP 003	102 111 88 102 90 105 95 96 104	105 114 91 102 88 105 98 98 104	0 0 0 0 0 0 0 0 0	116
M1050	Permanent Slope Works	excavator lorry dump truck drilling rig grout mixer grout pump	3 2 3 3 3 3	50% 50% 50% 50% 50% 50%	BS D3/35 BS D9/24 BS D9/24 BS C2/43 CNP 105 CNP 106	106 104 104 102 90 105	108 104 106 104 92 107	0 0 0 0 0 0	113
M1060	Retaining Wall & Elevated Section	concrete lorry mixer dump truck excavator circular saw crane poker, vibratory bar bender and cutter generator breaker (pneumatic)	4 4 4 4 4 4 2 2 3	50% 50% 50% 40% 50% 50% 30% 100% 50%	BS D6/33 BS D9/24 BS D3/35 BS D7/78 BS D7/101 BS D6/40 CNP 021 CNP 103 BS C9/12	96 104 106 106 94 98 90 95 113	99 107 109 108 97 101 88 98 115	0 0 0 0 0 0 0 0 0	117
M1070	Soil Backfilling and Compaction	excavator roller, vibratory	4 2	50% 50%	BS D3/35 BS C2/39	106 102	109 102	0 0	110
M1080	Permanent Access Road & Other Road Furniture	lorry roller, vibratory poker, vibratory compactor mobile crane concrete mixer	2 1 2 1 2 1	50% 50% 50% 50% 50% 50%	BS D9/24 BS C2/39 BS D6/40 CNP 050 BS D7/101 CNP 046	104 102 98 105 94 96	104 99 98 102 94 93	0 0 0 0 0 0	108
M1090	Remaining Works	lorry roller, vibratory poker, vibratory compactor mobile crane concrete mixer	2 1 2 1 2 1	50% 50% 50% 50% 50% 50%	BS D9/24 BS C2/39 BS D6/40 CNP 050 BS D7/101 CNP 046	104 102 98 105 94 96	104 99 98 102 94 93	0 0 0 0 0 0	108
<i>Construction of Explosive Compound Structure</i>									
M1100	Site Formation & Construction of Explosive Compound Structure	excavator lorry dump truck roller	1 1 1 1	50% 50% 50% 50%	BS D3/35 BS D9/24 BS D9/24 BS C2/38	106 104 104 101	103 101 101 98	0 0 0 0	107
M1110	E&M Installation for Explosive Compound Structure	air compressor breaker, hand-held concrete lorry mixer poker, vibratory generator	1 2 1 2 2	50% 50% 50% 50% 100%	CNP 003 CNP 025 BS D6/33 BS D6/40 CNP 103	104 111 96 98 95	101 111 93 98 98	0 0 0 0 0	112
Main Access Tunnel									
<i>Natural Terrain Hazard Mitigation Works-1</i>									
A1549	Mobilisation and site clearance	excavator lorry dump truck	2 2 2	50% 50% 50%	BS D3/35 BS D9/24 BS D9/24	106 104 104	106 104 104	0 0 0	110

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A1550	NTHS-Construction of Check Dam near East Portal	poker, vibratory	1	50%	BS D6/40	98	95	0	112
		breaker, hand-held	1	50%	CNP 025	111	108	0	
		excavator	1	50%	BS D3/35	106	103	0	
		lorry	1	50%	BS D9/24	104	101	0	
		grout mixer	1	50%	CNP 105	90	87	0	
		grout pump	1	50%	CNP 106	105	102	0	
		concrete lorry mixer	1	50%	BS D6/33	96	93	0	
		concrete pump	1	50%	BS C4/21	105	102	0	
		compactor	1	50%	CNP 050	105	102	0	
A1560	NTHS-Construction of Check Dam near West Portal	poker, vibratory	1	50%	BS D6/40	98	95	0	112
		breaker, hand-held	1	50%	CNP 025	111	108	0	
		excavator	1	50%	BS D3/35	106	103	0	
		lorry	1	50%	BS D9/24	104	101	0	
		grout mixer	1	50%	CNP 105	90	87	0	
		grout pump	1	50%	CNP 106	105	102	0	
		concrete lorry mixer	1	50%	BS D6/33	96	93	0	
		concrete pump	1	50%	BS C4/21	105	102	0	
		compactor	1	50%	CNP 050	105	102	0	
A1570	NTHS-Construction of Check Dam near Emergency Portal	poker, vibratory	1	50%	BS D6/40	98	95	0	112
		breaker, hand-held	1	50%	CNP 025	111	108	0	
		excavator	1	50%	BS D3/35	106	103	0	
		lorry	1	50%	BS D9/24	104	101	0	
		grout mixer	1	50%	CNP 105	90	87	0	
		grout pump	1	50%	CNP 106	105	102	0	
		concrete lorry mixer	1	50%	BS D6/33	96	93	0	
		concrete pump	1	50%	BS C4/21	105	102	0	
		compactor	1	50%	CNP 050	105	102	0	
A1580	Boulder Fall Fence Construction	poker, vibratory	1	50%	BS D6/40	98	95	0	113
		breaker, hand-held	1	50%	CNP 025	111	108	0	
		excavator	1	50%	BS D3/35	106	103	0	
		lorry	1	50%	BS D9/24	104	101	0	
		grout mixer	1	50%	CNP 105	90	87	0	
		grout pump	1	50%	CNP 106	105	102	0	
		piling rig	1	50%	BS C3/14	111	108	0	
		bar bender and cutter	1	30%	CNP 021	90	85	0	
		concrete lorry mixer	1	50%	BS D6/33	96	93	0	
concrete pump	1	50%	BS C4/21	105	102	0			
<i>Temporary Road Construction</i>									
A2100	Site Formation works in Area 73 (site office set-up, levelling, etc)	excavator	2	50%	BS D3/35	106	106	0	110
		lorry	2	50%	BS D9/24	104	104	0	
		dump truck	2	50%	BS D9/24	104	104	0	
A2110	Temporary road construction	excavator	1	50%	BS D3/35	106	103	0	108
		lorry	1	50%	BS D9/24	104	101	0	
		dump truck	1	50%	BS D9/24	104	101	0	
		roller	1	50%	BS C2/38	101	98	0	
		concrete mixer	1	50%	CNP 046	96	93	0	
		poker, vibratory	1	50%	BS D6/40	98	95	0	
A2120	Temporary steel bridge across Ah Kwong Kok Street	crane	1	50%	BS D7/101	94	91	0	104
		hoist	1	50%	CNP 122	95	92	0	
		Mini piling rig	1	50%	BS C3/17	104	101	0	
		concrete lorry mixer	1	50%	BS D6/33	96	93	0	
		welder/generator portable	1	50%	BS C3/32	101	98	0	
<i>Pilot Construction Adit</i>									
<i>Preparation Works</i>									
A1010	Mobilisation and site clearance	excavator	2	50%	BS D3/35	106	106	0	110
		lorry	2	50%	BS D9/24	104	104	0	
		dump truck	2	50%	BS D9/24	104	104	0	
<i>Site Formation Works of Portal</i>									
A1020	Construction of Retaining Wall	concrete lorry mixer	3	50%	BS D6/33	96	98	0	116
		dump truck	3	50%	BS D9/24	104	106	0	
		excavator	3	50%	BS D3/35	106	108	0	
		circular saw	3	40%	BS D7/78	106	107	0	
		crane	3	50%	BS D7/101	94	96	0	
		poker, vibratory	3	50%	BS D6/40	98	100	0	
		bar bender and cutter	2	30%	CNP 021	90	88	0	
		generator	2	100%	CNP 103	95	98	0	
		breaker (pneumatic)	2	50%	BS C9/12	113	113	0	

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A1030	Portal Slope Stabilisation Works	drilling rig	1	50%	BS C2/43	102	99	0	106
		air compressor	1	50%	CNP 003	104	101	0	
		grout mixer	1	50%	CNP 105	90	87	0	
		grout pump	1	50%	CNP 106	105	102	0	
		generator	1	100%	CNP 103	95	95	0	
A1040	Excavation and Temporary Haul Road Construction to Adit Portal	excavator	1	50%	BS D3/35	106	103	0	114
		excavator with hydraulic breaker	1	40%	BS C1/9	118	114	0	
		hydraulic rock splitter	1	30%	BS C12/2	101	96	0	
A1050	Drainage provision and surface protection	crane	1	50%	BS D7/101	94	91	0	103
		roller	1	50%	BS C2/38	101	98	0	
		truck	1	50%	BS D9/24	104	101	0	
<i>Excavation of Adit Tunnel</i>									
A1060	Soft ground excavation for Pilot Construction Adit	drilling jumbo	1	50%	BS D10/2	112	109	0	111
		lorry	1	50%	BS D9/24	104	101	0	
		dump truck	1	50%	BS D9/24	104	101	0	
		excavator	1	50%	BS D3/35	106	103	0	
A1070	Hard ground excavation for Pilot Construction Adit	drilling jumbo	1	50%	BS D10/2	112	109	0	113
		lorry	1	50%	BS D9/24	104	101	0	
		dump truck	1	50%	BS D9/24	104	101	0	
		excavator	1	50%	BS D3/35	106	103	0	
		air compressor	1	50%	CNP 003	104	101	0	
		water pump	1	50%	CNP 281	88	85	0	
		generator	1	100%	CNP 103	95	95	0	
		cherry picker	1	50%	BS C4/54	107	104	0	
		ventilation fan	1	50%	CNP 241	108	105	0	
		Main Access Tunnel Portal (East)							
<i>Preparation Works</i>									
A1080	Mobilisation and general site clearance	excavator	2	50%	BS D3/35	106	106	0	110
		lorry	2	50%	BS D9/24	104	104	0	
		dump truck	2	50%	BS D9/24	104	104	0	
A1090	Diversion of existing utilities	excavator	2	50%	BS D3/35	106	106	0	108
		lorry	2	50%	BS D9/24	104	104	0	
<i>Site Formation Works of Portal (East)</i>									
A1100	Excavation and slope cutting	excavator	1	50%	BS D3/35	106	103	0	114
		excavator with hydraulic breaker	1	40%	BS C1/9	118	114	0	
		hydraulic rock splitter	2	30%	BS C12/2	101	99	0	
A1110	Portal Slope Stabilisation Works	drilling rig	3	50%	BS C2/43	102	104	0	111
		air compressor	3	50%	CNP 003	104	106	0	
		grout mixer	3	50%	CNP 105	90	92	0	
		grout pump	3	50%	CNP 106	105	107	0	
		generator	3	100%	CNP 103	95	100	0	
A1120	Tunnel Portal Formation & Soft ground excavation (East)(60m)	drilling jumbo	1	50%	BS D10/2	112	109	0	114
		lorry	2	50%	BS D9/24	104	104	0	
		dump truck	2	50%	BS D9/24	104	104	0	
		excavator	2	50%	BS D3/35	106	106	0	
		crawler crane	2	50%	BS D7/112	102	102	0	
		concrete lorry mixer	2	50%	BS D6/33	96	96	0	
		concrete pump	2	50%	BS C4/21	105	105	0	
		water pump, submersible	3	50%	CNP 283	85	87	0	
		grout mixer	2	50%	CNP 105	90	90	0	
		grout pump	2	50%	CNP 106	105	105	0	
		Main Access Tunnel Portal (West)							
<i>Preparation Works</i>									
A1130	Mobilisation, general site clearance and levelling	excavator	2	50%	BS D3/35	106	106	0	110
		lorry	2	50%	BS D9/24	104	104	0	
		dump truck	2	50%	BS D9/24	104	104	0	
A1140	Diversion of existing utilities	excavator	1	50%	BS D3/35	106	103	0	105
		lorry	1	50%	BS D9/24	104	101	0	
		mobile crane	1	50%	BS D7/101	94	91	0	
A1150	Demolition of existing facility (Evangelical Lutheran Church of HK)	excavator	2	50%	BS D3/35	106	106	0	109
		lorry	2	50%	BS D9/24	104	104	0	
		mobile crane	1	50%	BS D7/101	94	91	0	
		generator	1	100%	CNP 103	95	95	0	
		air compressor	1	50%	CNP 003	104	101	0	
<i>Site Formation Works of Portal (West)</i>									
A1160	Erection of working platform for bored pile wall construction	crane	2	50%	BS D7/101	94	94	0	111
		lorry	2	50%	BS D9/24	104	104	0	

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		excavator	2	50%	BS D3/35	106	106	0	
		dump truck	2	50%	BS D9/24	104	104	0	
		air compressor	2	50%	CNP 003	104	104	0	
A1170	Pre-drilling for bored pile wall	drilling rig	10	50%	BS C2/43	102	109	0	109
A1180	Bored Piling Works for Cantilever Retaining Wall	crawler crane	1	50%	BS D7/112	102	99	0	115
		concrete pump	1	50%	BS C4/21	105	102	0	
		air compressor	1	50%	CNP 003	104	101	0	
		oscillator	1	50%	CNP 165	115	112	0	
		RCD	1	50%	CNP 166	100	97	0	
		generator	1	100%	CNP 103	95	95	0	
		chisel	1	40%	CNP 164	115	111	0	
		concrete lorry mixer	1	50%	BS D6/33	96	93	0	
		water pump	1	50%	CNP 281	88	85	0	
		bar bender and cutter	1	30%	CNP 021	90	85	0	
		dump truck	1	50%	BS D9/24	104	101	0	
A1190	Testing for bored piles	grout mixer	4	50%	CNP 105	90	93	0	110
		grout pump	4	50%	CNP 106	105	108	0	
		drilling rig	4	50%	BS C2/43	102	105	0	
A1191	Capping beam construction for Cantilever Retaining Wall	air compressor	2	50%	CNP 003	104	104	0	111
		generator	1	100%	CNP 103	95	95	0	
		concrete pump	1	50%	BS C4/21	105	102	0	
		lorry	3	50%	BS D9/24	104	106	0	
		poker, vibratory	3	50%	BS D6/40	98	100	0	
		bar bender and cutter	4	30%	CNP 021	90	91	0	
		air blower	4	50%	CNP 006	95	98	0	
		saw	4	40%	CNP 205	101	103	0	
		mobile crane	2	50%	BS D7/101	94	94	0	
A1200	Excavation and slope cutting	excavator	6	50%	BS D3/35	106	111	0	122
		excavator with hydraulic breaker	6	40%	BS C1/9	118	122	0	
		hydraulic rock splitter	6	30%	BS C12/2	101	104	0	
A1210	Portal Slope Stabilisation works	drilling rig	4	50%	BS C2/43	102	105	0	112
		air compressor	4	50%	CNP 003	104	107	0	
		grouting machine	4	50%	CNP 106	105	108	0	
		generator	4	100%	CNP 103	95	101	0	
A1201	Piling works	drilling rig	1	50%	BS C2/43	102	99	0	111
		piling rig	1	50%	BS C3/14	111	108	0	
		water pump	1	50%	CNP 281	88	85	0	
		crawler crane	1	50%	BS D7/112	102	99	0	
		concrete pump	1	50%	BS C4/21	105	102	0	
		generator	1	100%	CNP 103	95	95	0	
		concrete lorry mixer	1	50%	BS D6/33	96	93	0	
		air compressor	1	50%	CNP 003	104	101	0	
A1220	Tunnel Portal Formation & Soft ground excavation (West)(25m)	drilling jumbo	1	50%	BS D10/2	112	109	0	111
		lorry	1	50%	BS D9/24	104	101	0	
		dump truck	1	50%	BS D9/24	104	101	0	
		excavator	1	50%	BS D3/35	106	103	0	
		air compressor	1	50%	CNP 003	104	101	0	
Cavern Construction									
<i>Cavern Excavation (Drill & Blast)</i>									
A1931	Manuvour and handling of C&D materials in Area 73	excavator	25	50%	BS D3/35	106	117	0	117
<i>Vent Shaft at A Kung Kok Shan</i>									
A1360	Site Formation for Works Area	excavator	2	50%	BS D3/35	106	106	0	110
		lorry	2	50%	BS D9/24	104	104	0	
		dump truck	2	50%	BS D9/24	104	104	0	
		roller	2	50%	BS C2/38	101	101	0	
A1370	Construction of Guide wall	concrete mixer	1	50%	CNP 046	96	93	0	106
		excavator	1	50%	BS D3/35	106	103	0	
		lorry	1	50%	BS D9/24	104	101	0	
		poker, vibratory	1	50%	BS D6/40	98	95	0	
A1380	Setting up for construction of Diaphragm Wall	excavator	1	50%	BS D3/35	106	103	0	107
		lorry	1	50%	BS D9/24	104	101	0	
		dump truck	1	50%	BS D9/24	104	101	0	
		crane	1	50%	BS D7/101	94	91	0	
A1390	Construction of Diaphragm Wall	pump	2	50%	CNP 281	88	88	0	111
		crane	2	50%	BS D7/101	94	94	0	
		grab	2	40%	CNP 069	105	104	0	
		hydrofraise	2	60%	CNP 166	100	101	0	

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		concrete mixer	2	50%	CNP 046	96	96	0	
		generator	3	100%	CNP 103	95	100	0	
		air compressor	4	50%	CNP 003	104	107	0	
		desander	1	80%	CNP 162	105	104	0	
A1400	Testing of Diaphragm Wall	grout mixer	4	50%	CNP 105	90	93	0	110
		grout pump	4	50%	CNP 106	105	108	0	
		drilling rig	4	50%	BS C2/43	102	105	0	
A1590	Excavation in Soft Ground (16m depth)	excavator	2	50%	BS D3/35	106	106	0	108
		lorry	2	50%	BS D9/24	104	104	0	
		crane	2	50%	BS D7/101	94	94	0	
A1591	Setting up for Noise Enclosure	bar bender and cutter	2	30%	CNP 021	90	88	0	110
		poker, vibratory	3	50%	BS D6/40	98	100	0	
		air compressor	2	50%	CNP 003	104	104	0	
		concrete lorry mixer	2	50%	BS D6/33	96	96	0	
		concrete pump	2	50%	BS C4/21	105	105	0	
		mobile crane	1	50%	BS D7/101	94	91	0	
		cherry picker	1	50%	BS C4/54	107	104	0	
A1660	Excavation for Ventilation Adit by drill & blast method (540m)	drilling jumbo	1	50%	BS D10/2	112	109	0	114
		lorry	1	50%	BS D9/24	104	101	0	
		dump truck	1	50%	BS D9/24	104	101	0	
		excavator	1	50%	BS D3/35	106	103	0	
		air compressor	1	50%	CNP 003	104	101	0	
		water pump	1	50%	CNP 281	88	85	0	
		generator	1	100%	CNP 103	95	95	0	
		cherry picker	1	50%	BS C4/54	107	104	0	
		ventilation fan	2	50%	CNP 241	108	108	0	
A1661	Excavation in Rock Portion by drill & blast method (90m depth)	raiseboring rig	1	30%	BS C3/17	104	99	0	105
		dump truck	2	50%	BS D9/24	104	104	0	
Emergency Access Tunnel Portal									
<i>Preparation Works</i>									
A1240	Mobilisation and general site clearance	excavator	2	50%	BS D3/35	106	106	0	110
		lorry	2	50%	BS D9/24	104	104	0	
		dump truck	2	50%	BS D9/24	104	104	0	
<i>Construction Works</i>									
A1260	Erection of working platform for bored pile wall construction	crane	2	50%	BS D7/101	94	94	0	111
		lorry	2	50%	BS D9/24	104	104	0	
		excavator	2	50%	BS D3/35	106	106	0	
		dump truck	2	50%	BS D9/24	104	104	0	
		air compressor	2	50%	CNP 003	104	104	0	
		hoist	2	50%	CNP 122	95	95	0	
A1270	Pre-drilling for bored pile wall	drilling rig	10	50%	BS C2/43	102	109	0	109
A1280	Cantilever Retaining Wall	crawler crane	4	50%	BS D7/112	102	105	0	121
		concrete pump	3	50%	BS C4/21	105	107	0	
		air compressor	4	50%	CNP 003	104	107	0	
		oscillator	4	50%	CNP 165	115	118	0	
		RCD	4	50%	CNP 166	100	103	0	
		generator	4	100%	CNP 103	95	101	0	
		chisel	3	40%	CNP 164	115	116	0	
		concrete lorry mixer	3	50%	BS D6/33	96	98	0	
		water pump	3	50%	CNP 281	88	90	0	
		bar bender and cutter	3	30%	CNP 021	90	90	0	
		dump truck	4	50%	BS D9/24	104	107	0	
A1290	Testing for bored piles	grout mixer	4	50%	CNP 105	90	93	0	110
		grout pump	4	50%	CNP 106	105	108	0	
		drilling rig	4	50%	BS C2/43	102	105	0	
A1300	Excavation and slope cutting	excavator	2	50%	BS D3/35	106	106	0	117
		excavator with hydraulic breaker	2	40%	BS C1/9	118	117	0	
		hydraulic rock splitter	3	30%	BS C12/2	101	101	0	
A1310	Soil backfilling and compaction	excavator	4	50%	BS D3/35	106	109	0	110
		roller, vibratory	2	50%	BS C2/39	102	102	0	
A1320	Portal Slope Stabilisation works	drilling rig	4	50%	BS C2/43	102	105	0	112
		air compressor	4	50%	CNP 003	104	107	0	
		grouting machine	4	50%	CNP 106	105	108	0	
		generator	4	100%	CNP 103	95	101	0	
A1330	Tunnel Portal Formation at Mui Tsz Lam Portal	drilling rig	4	50%	BS C2/43	102	105	0	114
		lorry	4	50%	BS D9/24	104	107	0	
		dump truck	4	50%	BS D9/24	104	107	0	

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Construction Plant Inventory (Mitigated Scenario)

Activity ID	Activity Name	PME	No. of Plant	30-min Usage	PME ID	SWL / item, dB(A)	SWL, dB(A)	Barrier Corr., dB(A)	SWL / Activity, dB(A)
		excavator	4	50%	BS D3/35	106	109	0	
		air compressor	4	50%	CNP 003	104	107	0	
Construction of effluent pipeline									
A1940	Condition survey and tunnel strengthening works for THEES tunnel*	excavator	1	50%	BS D3/35	106	103	0	108
		drilling rig	1	50%	BS C2/43	102	99	0	
		air compressor	1	50%	CNP 003	104	101	0	
		grout mixer	1	50%	CNP 105	90	87	0	
		grout pump	1	50%	CNP 106	105	102	0	
		generator	1	100%	CNP 103	95	95	0	
A1940	Condition survey	excavator	1	50%	BS D3/35	106	103	0	108
		drilling rig	1	50%	BS C2/43	102	99	0	
		air compressor	1	50%	CNP 003	104	101	0	
		grout mixer	1	50%	CNP 105	90	87	0	
		grout pump	1	50%	CNP 106	105	102	0	
		generator	1	100%	CNP 103	95	95	0	
A1940	Tunnel strengthening works	excavator	1	50%	BS D3/35	106	103	0	108
		drilling rig	1	50%	BS C2/43	102	99	0	
		air compressor	1	50%	CNP 003	104	101	0	
		grout mixer	1	50%	CNP 105	90	87	0	
		grout pump	1	50%	CNP 106	105	102	0	
		generator	1	100%	CNP 103	95	95	0	
A1940	Tunnel strengthening works	excavator	1	50%	BS D3/35	106	103	0	108
		drilling rig	1	50%	BS C2/43	102	99	0	
		air compressor	1	50%	CNP 003	104	101	0	
		grout mixer	1	50%	CNP 105	90	87	0	
		grout pump	1	50%	CNP 106	105	102	0	
		generator	1	100%	CNP 103	95	95	0	
A1941	Soft ground excavation	drilling jumbo	1	50%	BS D10/2	112	109	0	113
		lorry	1	50%	BS D9/24	104	101	0	
		dump truck	1	50%	BS D9/24	104	101	0	
		excavator	1	50%	BS D3/35	106	103	0	
		cherry picker	1	50%	BS C4/54	107	104	0	
		ventilation fan	1	50%	CNP 241	108	105	0	
A1943	Set up of micro TBM	crane	1	50%	BS D7/101	94	91	0	97
		generator	1	100%	CNP 103	95	95	0	
		pump	1	50%	CNP 281	88	85	0	
A1945	Modification of existing inlet chamber and complete connection*	mobile crane	1	50%	BS D7/101	94	91	0	109
		generator	1	100%	CNP 103	95	95	0	
		air compressor	1	50%	CNP 003	104	101	0	
		breaker	1	50%	BS D8/12	106	103	0	
		concrete pump	1	50%	BS C4/21	105	102	0	
		poker, vibratory	1	50%	BS D6/40	98	95	0	
		saw	1	40%	CNP 205	101	97	0	
		lorry	1	50%	BS D9/24	104	101	0	
		concrete lorry mixer	1	50%	BS D6/33	96	93	0	
Package 2 - Civil and E&M Works and T&C of relocated STSTW									
E&M Installation									
A1690	Construction of civil & builders works of relocated STSTW	excavator	5	50%	BS D3/35	106	110	0	120
		crawler crane	10	50%	BS D7/112	102	109	0	
		dump truck	10	50%	BS D9/24	104	111	0	
		lorry	10	50%	BS D9/24	104	111	0	
		generator	10	100%	CNP 103	95	105	0	
		air compressor	10	50%	CNP 003	104	111	0	
		ventilation fan	6	50%	CNP 241	108	113	0	
		cherry picker	5	50%	BS C4/54	107	111	0	
A1720	Construction of transformer and plant control room at main access tunnel portal area	crawler crane	1	50%	BS D7/112	102	99	0	106
		concrete lorry mixer	1	50%	BS D6/33	96	93	0	
		concrete pump	1	50%	BS C4/21	105	102	0	
		lorry	1	50%	BS D9/24	104	101	0	
A1730	Construction of ventilation building at main access tunnel portal area	air compressor	2	50%	CNP 003	104	104	0	111
		generator	1	100%	CNP 103	95	95	0	
		breaker	2	50%	BS D8/12	106	106	0	
		concrete pump	1	50%	BS C4/21	105	102	0	
		crane	1	50%	BS D7/101	94	91	0	
		lorry	3	50%	BS D9/24	104	106	0	
		poker, vibratory	3	50%	BS D6/40	98	100	0	

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Activity ID	Activity Name	PME	No. of Plant	30-min Usage	PME ID	SWL / item, dB(A)	SWL, dB(A)	Barrier Corr., dB(A)	SWL / Activity, dB(A)
		bar bender and cutter	4	30%	CNP 021	90	91	0	
		air blower	4	50%	CNP 006	95	98	0	
A1750	Laying of rising mains, effluent pipeline and emergency bypass pipeline	crane	2	50%	BS D7/101	94	94	0	106
		generator	1	100%	CNP 103	95	95	0	
		lorry	3	50%	BS D9/24	104	106	0	
A1760	Proposed roadworks and landscaping	excavator	2	50%	BS D3/35	106	106	0	111
		concrete pump	2	50%	BS C4/21	105	105	0	
		poker, vibratory	2	50%	BS D6/40	98	98	0	
		dump truck	2	50%	BS D9/24	104	104	0	
		generator	1	100%	CNP 103	95	95	0	
		paver	1	50%	BS C5/33	103	100	0	
		roller	4	50%	BS C2/38	101	104	0	
Emergency Outfall Construction									
A1740	Mobilisation of plant and equipment on Site	excavator	2	50%	BS D3/35	106	106	0	110
		lorry	2	50%	BS D9/24	104	104	0	
		dump truck	2	50%	BS D9/24	104	104	0	
A1770	Construction of jacking pit at Portal	lorry	2	50%	BS D9/24	104	104	0	114
		dump truck	2	50%	BS D9/24	104	104	0	
		excavator	2	50%	BS D3/35	106	106	0	
		concrete mixer	2	50%	CNP 046	96	96	0	
		crane	1	50%	BS D7/101	94	91	0	
		generator	2	100%	CNP 103	95	98	0	
		air compressor	2	50%	CNP 003	104	104	0	
		water pump	3	50%	CNP 281	88	90	0	
		ventilation fan	3	50%	CNP 241	108	110	0	
		welder/generator portable	3	50%	BS C3/32	101	103	0	
A1771	Construction of 1st intermediate pit at Ma On Shan Road & MOS Rail	lorry	2	50%	BS D9/24	104	104	0	114
		dump truck	2	50%	BS D9/24	104	104	0	
		excavator	2	50%	BS D3/35	106	106	0	
		concrete mixer	2	50%	CNP 046	96	96	0	
		crane	1	50%	BS D7/101	94	91	0	
		generator	2	100%	CNP 103	95	98	0	
		air compressor	2	50%	CNP 003	104	104	0	
		water pump	3	50%	CNP 281	88	90	0	
		ventilation fan	3	50%	CNP 241	108	110	0	
		welder/generator portable	3	50%	BS C3/32	101	103	0	
A1772	Construction of 2nd intermediate pit at Area 73	lorry	2	50%	BS D9/24	104	104	0	114
		dump truck	2	50%	BS D9/24	104	104	0	
		excavator	2	50%	BS D3/35	106	106	0	
		concrete mixer	2	50%	CNP 046	96	96	0	
		crane	1	50%	BS D7/101	94	91	0	
		generator	2	100%	CNP 103	95	98	0	
		air compressor	2	50%	CNP 003	104	104	0	
		water pump	3	50%	CNP 281	88	90	0	
		ventilation fan	3	50%	CNP 241	108	110	0	
		welder/generator portable	3	50%	BS C3/32	101	103	0	
A1773	Construction of Receiving pit at existing STSTW	lorry	2	50%	BS D9/24	104	104	0	114
		dump truck	2	50%	BS D9/24	104	104	0	
		excavator	2	50%	BS D3/35	106	106	0	
		concrete mixer	2	50%	CNP 046	96	96	0	
		crane	1	50%	BS D7/101	94	91	0	
		generator	2	100%	CNP 103	95	98	0	
		air compressor	2	50%	CNP 003	104	104	0	
		water pump	3	50%	CNP 281	88	90	0	
		ventilation fan	3	50%	CNP 241	108	110	0	
		welder/generator portable	3	50%	BS C3/32	101	103	0	
A1830	Pipe installation of remaining part and connection to existing submarine outfall	lorry	1	50%	BS D9/24	104	101	0	108
		dump truck	1	50%	BS D9/24	104	101	0	
		excavator	1	50%	BS D3/35	106	103	0	
		concrete mixer	1	50%	CNP 046	96	93	0	
		crawler crane	1	50%	BS D7/112	102	99	0	
		generator	1	100%	CNP 103	95	95	0	
		air compressor	1	50%	CNP 003	104	101	0	
Package 3 - Construction of Ancillary Facilities									
Administration Buildings and other ancillary facilities construction									
A1430	Construction of Administration Buildings and other ancillary facilities	air compressor	2	50%	CNP 003	104	104	0	112
		generator	1	100%	CNP 103	95	95	0	

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Activity ID	Activity Name	PME	No. of Plant	30-min Usage	PME ID	SWL / item, dB(A)	SWL, dB(A)	Barrier Corr., dB(A)	SWL / Activity, dB(A)
		breaker	2	50%	BS D8/12	106	106	0	
		concrete pump	1	50%	BS C4/21	105	102	0	
		tower crane	3	30%	CNP 049	95	95	0	
		lorry	3	50%	BS D9/24	104	106	0	
		poker, vibratory	3	50%	BS D6/40	98	100	0	
		bar bender and cutter	4	30%	CNP 021	90	91	0	
		air blower	4	50%	CNP 006	95	98	0	
		saw	4	40%	CNP 205	101	103	0	
		mobile crane	2	50%	BS D7/101	94	94	0	
Package 4 - Decommissioning and Demolition of Existing STSTW									
A1450	Demolition of existing STSTW	excavator	5	50%	BS D3/35	106	110	0	124
		excavator with hvdraulic breaker	5	40%	BS C1/9	118	121	0	
		dump truck	10	50%	BS D9/24	104	111	0	
		air compressor	5	50%	CNP 003	104	108	0	
		generator	5	100%	CNP 103	95	102	0	
		lorry	5	50%	BS D9/24	104	108	0	
		mobile crane	2	50%	BS D7/101	94	94	0	
		cutter	5	50%	CNP 056	112	116	0	
		breaker, hand-held	10	50%	CNP 025	111	118	0	
A1451	Demolition of existing STSTW	excavator	5	50%	BS D3/35	106	110	0	124
		excavator with hvdraulic breaker	5	40%	BS C1/9	118	121	0	
		dump truck	10	50%	BS D9/24	104	111	0	
		air compressor	5	50%	CNP 003	104	108	0	
		generator	5	100%	CNP 103	95	102	0	
		lorry	5	50%	BS D9/24	104	108	0	
		mobile crane	2	50%	BS D7/101	94	94	0	
		cutter	5	50%	CNP 056	112	116	0	
		breaker, hand-held	10	50%	CNP 025	111	118	0	
A1452	Demolition of existing STSTW	excavator	5	50%	BS D3/35	106	110	0	124
		excavator with hvdraulic breaker	5	40%	BS C1/9	118	121	0	
		dump truck	10	50%	BS D9/24	104	111	0	
		air compressor	5	50%	CNP 003	104	108	0	
		generator	5	100%	CNP 103	95	102	0	
		lorry	5	50%	BS D9/24	104	108	0	
		mobile crane	2	50%	BS D7/101	94	94	0	
		cutter	5	50%	CNP 056	112	116	0	
		breaker, hand-held	10	50%	CNP 025	111	118	0	
A1453	Demolition of existing STSTW	excavator	5	50%	BS D3/35	106	110	0	124
		excavator with hvdraulic breaker	5	40%	BS C1/9	118	121	0	
		dump truck	10	50%	BS D9/24	104	111	0	
		air compressor	5	50%	CNP 003	104	108	0	
		generator	5	100%	CNP 103	95	102	0	
		lorry	5	50%	BS D9/24	104	108	0	
		mobile crane	2	50%	BS D7/101	94	94	0	
		cutter	5	50%	CNP 056	112	116	0	
		breaker, hand-held	10	50%	CNP 025	111	118	0	