

Appendix 9.8 Construction Plant Inventory for SCL (HUH-ADM)- Mitigated Scenario

Plant Inventory for Construction Noise Assessment - Session: Southern Approach Tunnels, HUH Landfall and Hung Hom Station

Scenario: Mitigated 

Package: 15 HUH South Approach Tunnel (SAT)

Southern Approach Tunnels

Demolition of Freight Buidling

Demolition of Freight Buidling

(11/2014-01/2015)

	PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Crane, mobile		CNP 048	1	112	80%	0	111
Dump truck		CNP 067	1	117	30%	0	112
Cutter, circular, steel		CNP 056	1	112	30%	0	107
Lorry with crane/grab		CNP 145	1	105	60%	0	103
Backhoe with Hydraulic Breaker		CNP 028	2	122	30%	0	120
Overall Noise Level, dB(A)							121

Package: 12 HUH Landfall

HUH landfall

Existing Fender Piles Removal, Cofferdam Wall Construction and Shear Pining

(01/2015-09/2015)

	PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
Tug Boat		CNP 221	1	110	30%	0	0	105
Derrick barges		CNP 061	1	104	100%	0	0	104
Air compressor		CNP 002	1	102	100%	0	0	102
Water Pump (electric)		CNP 282	2	103	80%	0	0	105
Crawler crane, mobile		CNP 048	2	112	60%	0	0	113
Welding set		CNP 107	2	100	30%	0	0	98
Excavator		CNP 081	1	112	100%	0	0	112
Drill rig, rotary type		CNP 072	1	110	70%	0	0	108
Grout mixer		CNP 105	1	90	50%	0	0	87
Grout pump		CNP 106	2	105	50%	0	0	105
Lorry with crane/grab		CNP 145	1	105	30%	0	0	100
Overall Noise Level, dB(A)								118

Soft Ground Excavation

(10/2015-12/2015)

	PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
In Shaft								
Excavator		CNP 081	2	112	100%	-10	0	105
Breaker, excavator mounted (hydraulic)		CNP 028	1	122	50%	-10	0	109
Breaker, hand-held		CNP 024	1	108	50%	-10	0	95
Welding Set		CNP 107	1	100	30%	-10	0	85
Water Pump, submersible (electric)		CNP 283	2	85	100%	-10	0	78
At Surface								
Crawler crane, mobile		CNP 048	1	112	60%	0	0	110
Ventilation fans		CNP 241	1	108	100%	0	0	108
Air compressor		CNP 002	1	102	100%	0	0	102
Water pump (electric)		CNP 282	1	103	80%	0	0	102
Overall Noise Level, dB(A)								115

Excavation Work

(11/2015-04/2016)

	PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
Hand held pneumatic breaker		CNP 026	10	114	30%	0	0	119
Air compressor		CNP 002	5	102	30%	0	0	104
Backhoe with hydraulic breaker		BS D8/13	4	110	50%	0	0	113
Excavator		BS D3/35	4	106	100%	0	0	112
Overall Noise Level, dB(A)								121

Appendix 9.8 Construction Plant Inventory for SCL (HUH-ADM)- Mitigated Scenario

Plant Inventory for Construction Noise Assessment - Session: Southern Approach Tunnels, HUH Landfall and Hung Hom Station

Scenario: Mitigated 

Tunnel Box Construction

(03/2016-05/2016)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
In Shaft							
Bar bender and cutter (electric)	CNP 021	1	90	50%	-10	0	77
Water Pump, submersible (electric)	CNP 283	2	85	100%	-10	0	78
Compactor, vibratory	CNP 050	1	105	50%	-10	0	92
At Surface							
Concrete lorry mixer	CNP 044	2	109	50%	0	0	109
Crawler crane, mobile	CNP 048	1	112	60%	0	0	110
Ventilation Fans	CNP 241	2	108	100%	0	0	111
Air compressor	CNP 002	1	102	100%	0	0	102
Water Pump (electric)	CNP 282	1	103	80%	0	0	102
Overall Noise Level, dB(A)							115

E&M Installation

(06/2016)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
In Shaft							
Drill, hand-held (electric)	CNP 064	1	103	100%	-10	0	93
At Surface							
Crawler crane, mobile	CNP 048	1	112	60%	0	0	110
Ventilation Fans	CNP 241	2	108	100%	0	0	111
Lorry with crane/grab	CNP 145	1	105	40%	0	0	101
Overall Noise Level, dB(A)							114

Cofferdam Wall Removal and Fender Piles Reinstatement

(06/2016)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
In Shaft							
Excavator	CNP 081	2	112	100%	-10	0	105
Breaker, excavator mounted (hydraulic)	CNP 028	1	122	100%	-10	0	112
Breaker, hand-held	CNP 024	1	108	50%	-10	0	95
Welding Set	CNP 107	1	100	30%	-10	0	85
Water Pump, submersible (electric)	CNP 283	2	85	100%	-10	0	78
At Surface							
Ventilation Fans	CNP 241	1	108	100%	0	0	108
Tug Boat	CNP 221	1	110	30%	0	0	105
Derrick barges	CNP 061	1	104	100%	0	0	104
Air compressor	CNP 002	1	102	100%	0	0	102
Water Pump (electric)	CNP 282	1	103	80%	0	0	102
Overall Noise Level, dB(A)							115

Backfilling and Reinstatement

(07/2016-11/2016)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
On Sea							
Tug Boat	CNP 221	2	110	30%	0	0	108
Derrick barges	CNP 061	2	104	100%	0	0	107
Excavator	CNP 081	2	112	100%	0	0	115
Overall Noise Level, dB(A)							116

Appendix 9.8 Construction Plant Inventory for SCL (HUH-ADM)- Mitigated Scenario

Plant Inventory for Construction Noise Assessment - Session: Southern Approach Tunnels, HUH Landfall and Hung Hom Station

Scenario: Mitigated 

HUH Freight Pier

Demolition of Existing Freight Pier

(09/2014-02/2015)

	PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
On Sea								
Drill, percussive, hand-held		CNP 064	1	103	50%	0	0	100
Saw, concrete		CNP 203	2	115	50%	0	0	115
Crawler crane, mobile		CNP 048	1	112	50%	0	0	109
Derrick barges		CNP 061	1	104	100%	0	0	104
Overall Noise Level, dB(A)								116

Piling Construction

(01/2018-03/2018)

	PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
Generator, standard		CNP 101	2	108	80%	0	0	110
Crane lorry, mobile		CNP 048	1	112	30%	0	0	107
Crane, tower (electric)		CNP 049	1	95	30%	0	0	90
Air compressor		CNP 002	1	102	40%	0	0	98
Welder/generator, portable		CNP 107	1	100	30%	0	0	95
Rock drill, crawler mounted (hydraulic)		CNP 182	2	123	40%	0	0	122
Dump truck		CNP 067	1	117	30%	0	0	112
Lorry		CNP 141	1	112	30%	0	0	107
Overall Noise Level, dB(A)								123

Concrete Deck Construction and Marine Furniture

(04/2018-09/2018)

	PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
Circular Saw		CNP 201	1	108	30%	0	0	103
Bar Bender		CNP 021	2	90	30%	0	0	88
Poker, vibrator, hand-held		CNP 170	3	113	30%	0	0	113
Air Compressor		CNP 002	1	102	70%	0	0	100
Concrete lorry mixer		CNP 044	1	109	30%	0	0	104
Concrete pump		CNP 047	1	109	30%	0	0	104
Crane lorry, mobile		CNP 048	1	112	30%	0	0	107
Overall Noise Level, dB(A)								115

Appendix 9.8 Construction Plant Inventory for SCL (HUH-ADM)- Mitigated Scenario

Plant Inventory for Construction Noise Assessment - Session: Southern Approach Tunnels, HUH Landfall and Hung Hom Station

Scenario: Mitigated 

Package: 13 NOV

NOV Construction

Site Clearance, Fencing & Hoarding

(12/2015)

	PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Excavator		CNP 081	1	112	70%	0	110
Saw, concrete		CNP 203	2	115	30%	0	113
Crane lorry, mobile		CNP 048	1	112	50%	0	109
Dump truck		CNP 067	1	117	30%	0	112
Poker, vibrator, hand-held		CNP 170	2	113	30%	0	111
Air Compressor		CNP 002	1	102	70%	0	100
Concrete lorry mixer		CNP 044	1	109	30%	0	104
Overall Noise Level, dB(A)							118

Excavate Soft Material (+4.0mPD to -17.5mPD)

(01/2016-02/2016)

	PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Crawler / Excavator Loader		CNP 082	6	94	70%	0	100
Dump Truck		CNP 067	6	117	30%	0	120
Crane, mobile		CNP 048	3	112	30%	0	112
Overall Noise Level, dB(A)							120

Construct NOV

(02/2016-05/2016)

	PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Crane, mobile		CNP 048	1	112	30%	0	107
Bar Bender and Cutter		CNP 021	2	90	30%	0	88
Concrete Mixer Truck		CNP 044	2	109	30%	0	107
Poker, vibrator, hand-held		CNP 170	2	113	30%	0	111
Concrete Pump Truck		CNP 047	1	109	30%	0	104
Overall Noise Level, dB(A)							114

Appendix 9.8 Construction Plant Inventory for SCL (HUH-ADM)- Mitigated Scenario

Plant Inventory for Construction Noise Assessment - IMT Fabrication Casting Basin

Scenario: Mitigated

Package: 11 IMT Session

Shek O Casting Basin

Formation of Casting Basin at Shek O

(09/2014-08/2015)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Excavator	CNP 081	2	112	100%	0	115
Dump Truck	CNP 067	3	117	30%	0	117
Breaker, excavator mounted (hydraulic)	CNP 028	1	122	30%	0	117
Water Pump (electric)	CNP 282	4	103	80%	0	108
Generator, standard	CNP 101	1	108	100%	0	108
Air Compressor	CNP 002	1	102	100%	0	102
Overall Noise Level, dB(A)						121

Casting IMT units and Barging Point

(09/2015-03/2017)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Bar bender and cutter (electric)	CNP 021	2	90	30%	0	88
Tower Crane	CNP 049	3	95	80%	0	99
Concrete Pump	CNP 047	4	109	30%	0	110
Concrete lorry mixer	CNP 044	4	109	30%	0	110
Lorry	CNP 141	1	112	30%	0	107
Derrick Barges	CNP 061	1	104	30%	0	99
Generator, standard	CNP 101	1	108	100%	0	108
Air Compressor	CNP 002	2	102	100%	0	105
Poker, vibrator, hand-held	CNP 170	2	113	30%	0	111
Overall Noise Level, dB(A)						117

Concrete Batching Plant

(09/2015-03/2017)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Concrete Batching Plant	CNP 022	1	108	50%	0	105
Wheel Loader	CNP 081	1	112	60%	0	110
Concrete Pump	CNP 047	4	109	30%	0	110
Concrete lorry mixer	CNP 044	4	109	30%	0	110
Lorry	CNP 141	1	112	30%	0	107
Generator, standard	CNP 101	1	108	100%	0	108
Air Compressor	CNP 002	2	102	100%	0	105
Overall Noise Level, dB(A)						117

Appendix 9.8 Construction Plant Inventory for SCL (HUH-ADM)- Mitigated Scenario

Plant Inventory for Construction Noise Assessment - IMT to SOV - Construction of cut and cover tunnel section

Scenario:

Mitigated

Package: 10 IMT to SOV POC

Construction of cut and cover tunnel section (inside breakwater - SCL 3.1)

Dredging

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
Tug Boat	CNP 221	2	110	30%	0	0	108
Derrick barges	CNP 061	2	104	100%	0	0	107
Dredger, chain bucket	CNP 062	1	118	100%	0	0	118
Dredger, grab	CNP 063	1	112	100%	0	0	112
Excavator	BS D3/35	2	106	100%	0	0	109
Conveyor Belt (mounted on barges)	CNP 041	1	90	50%	0	0	87
Overall Noise Level, dB(A)							120

Rockfill to Temporary Seawall

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
Derrick Barge	CNP 061	2	104	100%	0	0	107
Tug boat	CNP 221	1	110	100%	0	0	110
Crane*	Table C7/114	2	101	100%	0	0	104
Barges	-	2	0	100%	0	0	0
Overall Noise Level, dB(A)							112

Filling behind Temporary Seawall

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
Derrick Barge	CNP 061	2	104	100%	0	0	107
Barge	-	2	0	100%	0	0	0
Tug Boat	CNP 221	2	110	100%	0	0	113
Bulldozer*	Table C9/2	2	104	100%	0	0	107
Overall Noise Level, dB(A)							115

Diaphragm Wall Construction

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
Air Compressor	CNP 002	1	102	100%	0	-10	92
Water Pump (electric)	CNP 281	3	88	80%	0	0	92
Crawler crane, mobile	BS D7/112	2	102	60%	0	0	103
Piling, diaphragm wall, benetonite filtering plant	CNP 162	1	105	100%	0	-10	95
Piling, diaphragm wall, hydraulic extractor	CNP 163	1	90	100%	0	-10	80
Bentonite Mixer	CNP 045	1	96	100%	0	0	96
Welding Set	CNP 107	2	100	30%	0	0	98
Bar bender and cutter (electric)	CNP 021	1	90	50%	0	-10	77
Concrete lorry mixer	BS D6/33	2	96	50%	0	0	96
Drill rig, rotary type	CNP 072	1	110	70%	0	-10	98
Grout Mixer	CNP 105	1	90	50%	0	0	87
Grout Pump	CNP 106	2	105	50%	0	-10	95
Lorry with crane/grab	CNP 145	1	105	30%	0	0	100
Overall Noise Level, dB(A)							108

Soil Excavation

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
In Shaft							
Excavator	BS D3/35	2	106	100%	-10	0	99
Breaker, excavator mounted (hydraulic)	BS D8/13	1	110	50%	-10	0	97
Breaker, hand-held	CNP 024	1	108	50%	-10	0	95
Welding Set	CNP 107	1	100	30%	-10	0	85
Water Pump, submersible (electric)	CNP 283	2	85	100%	-10	0	78
At Surface							
Crawler crane, mobile	BS D7/112	1	102	60%	0	0	100
Ventilation Fans	CNP 241	1	108	100%	0	0	108
Tug Boat	CNP 221	1	110	30%	0	0	105
Derrick barges	CNP 061	1	104	100%	0	0	104
Air compressor	CNP 002	1	102	100%	0	-10	92
Water Pump (electric)	CNP 281	1	88	80%	0	0	87
Overall Noise Level, dB(A)							112

Tunnel Box Construction

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
In Shaft							
Bar bender and cutter (electric)	CNP 021	1	90	50%	-10	0	77
Water Pump, submersible (electric)	CNP 283	2	85	100%	-10	0	78
Compactor, vibratory	CNP 050	1	105	50%	-10	0	92
At Surface							
Concrete lorry mixer	BS D6/33	2	96	50%	0	0	96
Crawler Crane, mobile	BS D7/112	1	102	60%	0	0	100
Ventilation Fans	CNP 241	2	108	100%	0	0	111
Air compressor	CNP 002	1	102	100%	0	-10	92
Water Pump (electric)	CNP 281	1	88	80%	0	0	87
Overall Noise Level, dB(A)							112

Appendix 9.8 Construction Plant Inventory for SCL (HUH-ADM)- Mitigated Scenario

Plant Inventory for Construction Noise Assessment - IMT to SOV - Construction of cut and cover tunnel section

Scenario:

Mitigated

Package: 10 IMT to SOV POC
Backfilling

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
On Sea							
Tug Boat	CNP 221	2	110	30%	0	0	108
Derrick barges	CNP 061	2	104	100%	0	0	107
Excavator	BS D3/35	2	106	100%	0	-5	104
Overall Noise Level, dB(A)							111

Diaphragm Wall Removal

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
In Shaft							
Excavator	BS D3/35	2	106	100%	-10	0	99
Breaker, excavator mounted (hydraulic)	BS D8/13	1	110	100%	-10	0	100
Concrete crusher, excavator mounted	CNP 055	1	103	100%	-10	0	93
Breaker, hand-held	CNP 024	1	108	50%	-10	0	95
Welding Set	CNP 107	1	100	30%	-10	0	85
Water Pump, submersible (electric)	CNP 283	2	85	100%	-10	0	78
At Surface							
Ventilation Fans	CNP 241	1	108	100%	0	0	108
Tug Boat	CNP 221	2	110	30%	0	0	108
Derrick barges	CNP 061	2	104	100%	0	0	107
Air compressor	CNP 002	1	102	100%	0	-10	92
Water Pump (electric)	CNP 281	1	88	80%	0	0	87
Overall Noise Level, dB(A)							113

Construction of cut and cover tunnel section (inside breakwater - SCL 3.2)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
(03/2017)							
Dredging							
Tug Boat	CNP 221	2	110	30%	0	0	108
Derrick barges	CNP 061	2	104	100%	0	0	107
Dredger, chain bucket	CNP 062	1	118	100%	0	0	118
Dredger, grab	CNP 063	1	112	100%	0	0	112
Excavator	BS D3/35	2	106	100%	0	0	109
Conveyor Belt (mounted on barges)	CNP 041	1	90	50%	0	0	87
Overall Noise Level, dB(A)							120

Rockfill to Temporary Seawall

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
(04/2017)							
Tug Boat	CNP 221	2	110	30%	0	0	108
Derrick barges	CNP 061	2	104	100%	0	0	107
Dredger, chain bucket	CNP 062	1	118	100%	0	0	118
Dredger, grab	CNP 063	1	112	100%	0	0	112
Excavator	BS D3/35	2	106	100%	0	0	109
Conveyor Belt (mounted on barges)	CNP 041	1	90	50%	0	0	87
Overall Noise Level, dB(A)							120

Temporary Seawall Construction

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
(05/2017-06/2017)							
Tug Boat	CNP 221	2	110	30%	0	0	108
Derrick barges	CNP 061	2	104	100%	0	0	107
Dredger, chain bucket	CNP 062	1	118	100%	0	0	118
Dredger, grab	CNP 063	1	112	100%	0	0	112
Excavator	BS D3/35	2	106	100%	0	0	109
Conveyor Belt (mounted on barges)	CNP 041	1	90	50%	0	0	87
Overall Noise Level, dB(A)							120

Filling behind Temporary Seawall

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
(07/2017)							
Tug Boat	CNP 221	2	110	30%	0	0	108
Derrick barges	CNP 061	2	104	100%	0	0	107
Dredger, chain bucket	CNP 062	1	118	100%	0	0	118
Dredger, grab	CNP 063	1	112	100%	0	0	112
Excavator	BS D3/35	2	106	100%	0	0	109
Conveyor Belt (mounted on barges)	CNP 041	1	90	50%	0	0	87
Overall Noise Level, dB(A)							120

Appendix 9.8 Construction Plant Inventory for SCL (HUH-ADM)- Mitigated Scenario

Plant Inventory for Construction Noise Assessment - IMT to SOV - Construction of cut and cover tunnel section

Scenario:

Mitigated

Package: 10 IMT to SOV POC
Diaphragm Wall Construction

(08/2017-11/2017)

	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
PME							
Air Compressor	CNP 002	1	102	100%	0	-10	92
Water Pump (electric)	CNP 281	3	88	80%	0	0	92
Crawler crane, mobile	BS D7/112	2	102	60%	0	0	103
Piling, diaphragm wall, benetonite filtering plant	CNP 162	1	105	100%	0	-10	95
Piling, diaphragm wall, hydraulic extractor	CNP 163	1	90	100%	0	-10	80
Bentonite Mixer	CNP 045	1	96	100%	0	0	96
Welding Set	CNP 107	2	100	30%	0	0	98
Bar bender and cutter (electric)	CNP 021	1	90	50%	0	-10	77
Concrete lorry mixer	BS D6/33	2	96	50%	0	0	96
Drill rig, rotary type	CNP 072	1	110	70%	0	-10	98
Grout Mixer	CNP 105	1	90	50%	0	0	87
Grout pump	CNP 106	2	105	50%	0	-10	95
Lorry with crane/grab	CNP 145	1	105	30%	0	0	100
Overall Noise Level, dB(A)							108

Soil Excavation

(12/2017-01/2018)

	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
PME							
In Shaft							
Excavator	BS D3/35	2	106	100%	-10	0	99
Breaker, excavator mounted (hydraulic)	BS D8/13	1	110	50%	-10	0	97
Breaker, hand-held	CNP 024	1	108	50%	-10	0	95
Welding Set	CNP 107	1	100	30%	-10	0	85
Water Pump, submersible (electric)	CNP 283	2	85	100%	-10	0	78
At Surface							
Crawler crane, mobile	BS D7/112	1	102	60%	0	0	100
Ventilation Fans	CNP 241	1	108	100%	0	0	108
Tug Boat	CNP 221	1	110	30%	0	0	105
Derrick barges	CNP 061	1	104	100%	0	0	104
Air compressor	CNP 002	1	102	100%	0	-10	92
Water Pump (electric)	CNP 281	1	88	80%	0	0	87
Overall Noise Level, dB(A)							112

Tunnel Box Construction

(02/2018-05/2018)

	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
PME							
In Shaft							
Bar bender and cutter (electric)	CNP 021	1	90	50%	-10	0	77
Water Pump, submersible (electric)	CNP 283	2	85	100%	-10	0	78
Compactor, vibratory	CNP 050	1	105	50%	-10	0	92
At Surface							
Concrete lorry mixer	BS D6/33	2	96	50%	0	0	96
Crawler crane, mobile	BS D7/112	1	102	60%	0	0	100
Ventilation Fans	CNP 241	2	108	100%	0	0	111
Air compressor	CNP 002	1	102	100%	0	-10	92
Water Pump (electric)	CNP 281	1	88	80%	0	0	87
Overall Noise Level, dB(A)							112

Backfilling

(06/2018-08/2018)

	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
PME							
On Sea							
Tug Boat	CNP 221	2	110	30%	0	0	108
Derrick barges	CNP 061	2	104	100%	0	0	107
Excavator	BS D3/35	2	106	100%	0	-5	104
Overall Noise Level, dB(A)							111

Diaphragm Wall Removal

(06/2018-08/2018)

	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
PME							
In Shaft							
Excavator	BS D3/35	2	106	100%	-10	0	99
Breaker, excavator mounted (hydraulic)	BS D8/13	1	110	100%	-10	0	100
Concrete crusher, excavator mounted	CNP 055	1	103	100%	-10	0	93
Breaker, hand-held	CNP 024	1	108	50%	-10	0	95
Welding Set	CNP 107	1	100	30%	-10	0	85
Water Pump, submersible (electric)	CNP 283	2	85	100%	-10	0	78
At Surface							
Ventilation Fans	CNP 241	1	108	100%	0	0	108
Tug Boat	CNP 221	2	110	30%	0	0	108
Derrick barges	CNP 061	2	104	100%	0	0	107
Air compressor	CNP 002	1	102	100%	0	-10	92
Water Pump (electric)	CNP 281	1	88	80%	0	0	87
Overall Noise Level, dB(A)							113

Appendix 9.8 Construction Plant Inventory for SCL (HUH-ADM)- Mitigated Scenario

Plant Inventory for Construction Noise Assessment - Cut and Cover Tunnel, SOV and POC

Scenario: Mitigated

Package: 09 C&C Tunnel (CBTS to SOV), SOV & POC

SOV Construction

Installing Hoarding

(10/2014-12/2014)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Generator, super silenced	CNP 103	1	95	70%	0	93
Lorry with crane/grab	CNP 145	1	105	60%	0	103
Lorry	BS D9/19	1	102	30%	0	97
Overall Noise Level, dB(A)						104

Demolition of existing POC building

(10/2014-12/2014)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Saw, concrete	CNP 203	1	115	30%	-10	100
Air Compressor	CNP 002	2	102	100%	-10	95
Breaker, excavator mounted (hydraulic)	BS D8/13	3	110	70%	-5	108
Dump truck with grab	CNP 069	1	105	30%	0	100
Dump truck	BS D9/24	3	104	30%	0	104
Overall Noise Level, dB(A)						110

Diaphragm Wall Construction

(01/2015-04/2015)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Piling, diaphragm wall, bentonite filtering plant	CNP 162	2	105	80%	-10	97
Piling, diaphragm wall, hydraulic extractor	CNP 163	2	90	80%	-10	82
Piling, diaphragm wall, grab and chisel	CNP 165	2	115	60%	-10	106
Dumper truck	BS D9/24	4	104	60%	0	108
Concrete pump, stationary/lorry mounted	BS D6/36	2	106	50%	-10	96
Crane, mobile	BS D7/101	2	94	50%	0	94
Bar bender	CNP 021	1	90	80%	-10	79
Air compressor	CNP 002	2	102	100%	-10	95
Concrete lorry mixer	BS D6/33	4	96	30%	0	97
Overall Noise Level, dB(A)						111

Excavation work at SOV

(05/2015-9/2015)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Hand held pneumatic breaker	CNP 026	10	114	30%	-5	114
Air Compressor	CNP 002	5	102	30%	-10	94
Backhoe with hydraulic breaker	BS D8/13	4	110	50%	-5	108
Excavator	BS D3/35	4	106	100%	-5	107
Overall Noise Level, dB(A)						115

Construction of TBM launching shaft / SOV

(10/2015-04/2016)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Poker, vibrator, hand-held	BS D6/40	3	98	30%	0	98
Lorry with crane/grab	CNP 145	1	105	30%	0	100
Rock Drill	Ref 1	4	108	50%	0	111
Piling, large diameter bored, grab and chisel	CNP 164	1	115	50%	-10	102
Air Compressor	CNP 002	1	102	100%	-10	92
Concrete lorry mixer	BS D6/33	1	96	30%	0	91
Concrete pump	BS D6/36	1	106	30%	-10	91
Crane, mobile	BS D7/101	1	94	30%	0	89
Overall Noise Level, dB(A)						112

SOV Construction

(05/2016-12/2017)


PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Poker, vibrator, hand-held	BS D6/40	3	98	30%	0	98
Lorry with crane/grab	CNP 145	1	105	30%	0	100
Air Compressor	CNP 002	1	102	100%	-10	92
Concrete lorry mixer	BS D6/33	1	96	30%	0	91
Concrete pump	BS D6/36	1	106	30%	-10	91
Crane, mobile	BS D7/101	1	94	30%	0	89
Overall Noise Level, dB(A)						103

Ref 1 - SWL for Rock Drill is made reference to the approved EIA Report of "Tsim Sha Tsui Station Northern Subway" (Register No.: AEIAR-127/2008)

Appendix 9.8 Construction Plant Inventory for SCL (HUH-ADM)- Mitigated Scenario

Plant Inventory for Construction Noise Assessment - Cut and Cover Tunnel, SOV and POC

Scenario:

Mitigated 

Package: 09 C&C Tunnel (CBTS to SOV), SOV & POC

Construction of cut and cover tunnel section (SCL 1.4)

Diaphragm Wall Construction

(03/2015-05/2015)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
Air Compressor	CNP 002	1	102	100%	0	-10	92
Water Pump (electric)	CNP 281	3	88	80%	0	0	92
Crawler Crane, mobile	BS D7/112	2	102	60%	0	0	103
Piling, diaphragm wall, benetonite filtering plant	CNP 162	1	105	100%	0	-10	95
Piling, diaphragm wall, hydraulic extractor	CNP 163	1	90	100%	0	-10	80
Bentonite Mixer	CNP 045	1	96	100%	0	0	96
Welding Set	CNP 107	2	100	30%	0	0	98
Bar bender and cutter (electric)	CNP 021	1	90	50%	0	-10	77
Concrete lorry mixer	BS D6/33	2	96	50%	0	0	96
Drill rig, rotary type	CNP 072	1	110	70%	0	-10	98
Grout Mixer	CNP 105	1	90	50%	0	0	87
Grout Pump	CNP 106	2	105	50%	0	-10	95
Lorry with crane/grab	CNP 145	1	105	30%	0	0	100
Overall Noise Level, dB(A)							108

Excavation Works

(06/2015-09/2015)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
Hand held pneumatic breaker	CNP 026	10	114	30%	0	-5	114
Air Compressor	CNP 002	5	102	30%	0	-10	94
Backhoe with hydraulic breaker	BS D8/13	4	110	50%	0	-5	108
Excavator	BS D3/35	4	106	100%	0	-5	107
Overall Noise Level, dB(A)							115

Tunnel Box Construction

(10/2015-12/2015)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
In Shaft							
Bar bender and cutter (electric)	CNP 021	1	90	50%	-10	0	77
Water Pump, submersible (electric)	CNP 283	2	85	100%	-10	0	78
Compactor, vibratory	CNP 050	1	105	50%	-10	0	92
At Surface							
Concrete lorry mixer	BS D6/33	2	96	50%	0	0	96
Crawler crane, mobile	BS D7/112	1	102	60%	0	0	100
Ventilation Fans	CNP 241	2	108	100%	0	0	111
Air compressor	CNP 002	1	102	100%	0	-10	92
Water Pump (electric)	CNP 281	1	88	80%	0	0	87
Overall Noise Level, dB(A)							112

Backfilling

(01/2016)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
On Sea							
Tug Boat	CNP 221	2	110	30%	0	0	108
Derrick barges	CNP 061	2	104	100%	0	0	107
Excavator	BS D3/35	2	106	100%	0	-5	104
Overall Noise Level, dB(A)							111

Diaphragm Wall Removal

(02/2016-04/2016)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
In Shaft							
Excavator	BS D3/35	2	106	100%	-10	0	99
Breaker, excavator mounted (hydraulic)	BS D8/13	1	110	100%	-10	0	100
Concrete crusher, excavator mounted	CNP 055	1	103	100%	-10	0	93
Breaker, hand-held	CNP 024	1	108	50%	-10	0	95
Welding Set	CNP 107	1	100	30%	-10	0	85
Water Pump, submersible (electric)	CNP 283	2	85	100%	-10	0	78
At Surface							
Ventilation Fans	CNP 241	1	108	100%	0	0	108
Tug Boat	CNP 221	2	110	30%	0	0	108
Derrick barges	CNP 061	2	104	100%	0	0	107
Air compressor	CNP 002	1	102	100%	0	-10	92
Water pump (electric)	CNP 281	1	88	80%	0	0	87
Overall Noise Level, dB(A)							113

Appendix 9.8 Construction Plant Inventory for SCL (HUH-ADM)- Mitigated Scenario

Plant Inventory for Construction Noise Assessment - Cut and Cover Tunnel, SOV and POC

Scenario: Mitigated ▼

Package: 09 C&C Tunnel (CBTS to SOV), SOV & POC

New POC Construction

Piling: 610mm Diameter Pre-Bored H-Pile (Without SOV Basement) (01/2018-04/2018)

	PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Crane, Mobile		BS D7/101	1	94	30%	0	89
Piling, earth auger, auger		CNP 167	1	114	30%	-10	99
Lorry		BS D9/19	1	102	30%	0	97
Concrete lorry mixer		BS D6/33	1	96	30%	0	91
Overall Noise Level, dB(A)							102

Construction of new POC building (05/2018-11/2018)

	PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Bar Bender		CNP 021	2	90	50%	-10	80
Poker, vibrator, hand-held		BS D6/40	3	98	30%	0	98
Air Compressor		CNP 002	1	102	100%	-10	92
Concrete lorry mixer		BS D6/33	1	96	30%	0	91
Concrete pump		BS D6/36	1	106	30%	-10	91
Crane, mobile		BS D7/101	1	94	30%	0	89
Overall Noise Level, dB(A)							100

E&M Installtion (11/2018-07/2019)

	PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Crane, Mobile		BS D7/101	1	94	30%	0	89
Lorry		BS D9/19	1	102	30%	0	97
Lorry with crane/grab		CNP 145	1	105	30%	0	100
Overall Noise Level, dB(A)							102

Dismantle Hoarding (08/2019)

	PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Generator, super silenced		CNP 103	1	95	70%	0	93
Cutter circular, steel (electric)		CNP 056	1	112	70%	0	110
Lorry with crane/grab		CNP 145	1	105	60%	0	103
Lorry		BS D9/19	1	102	30%	0	97
Overall Noise Level, dB(A)							111

Appendix 9.8 Construction Plant Inventory for SCL (HUH-ADM)- Mitigated Scenario

Plant Inventory for Construction Noise Assessment - SOV to EXH

Scenario:

Mitigated

Package: 08 TBM Tunnels SOV to EXH

* The Works Area with length to width ratio exceeding 5 : 1 is divided into Subareas.

Reconstruct of Percival Street Footbridge

Site Clearance and Hoarding and Utility diversion

(03/2014)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
Excavator	BS D3/35	1	106	60%	0	-5	99
Air Compressor	CNP 002	1	102	40%	0	-10	88
Hand held breaker	CNP 025	2	111	40%	0	-5	105
Dump truck with grab	CNP 069	1	105	60%	0	0	103
Welder/generator	CNP 107	1	100	40%	0	0	96
Overall Noise Level, dB(A)							108

Construction of temporary footbridge

(04/2014-07/2014)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
Welder/generator, portable	CNP 107	1	100	70%	0	0	98
Lorry with crane/grab	CNP 145	1	105	60%	0	0	103
Overall Noise Level, dB(A)							104

Demolish of portion of existing footbridge

(08/2014-09/2014)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
Saw, concrete	CNP 203	1	115	30%	0	-10	100
Air Compressor	CNP 002	1	102	40%	0	-10	88
Hand held breaker	CNP 025	2	111	40%	0	-5	105
Dump truck with grab	CNP 069	1	105	80%	0	0	104
Welder/generator	CNP 107	1	100	30%	0	0	95
Lorry with crane/grab	CNP 145	1	105	60%	0	0	103
Excavator	BS D3/35	1	106	60%	0	-5	99
Hydraulic breaker	BS D8/13	1	110	60%	0	-5	103
Overall Noise Level, dB(A)							111

Removal of closed and potential closed piles

(10/2014-03/2015)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
Welder/generator, portable	CNP 107	1	100	30%	0	0	95
Poker, vibrator, hand-held	BS D6/40	3	98	30%	0	0	98
Concrete lorry mixer	BS D6/33	1	96	30%	0	0	91
Crane, mobile	BS D7/101	1	94	70%	0	0	92
Lorry with crane/grab	CNP 145	1	105	80%	0	0	104
concrete pump truck	BS D6/36	1	106	30%	0	0	101
Overall Noise Level, dB(A)							107

Reconstruction of permanent footbridge

(04/2015-09/2015)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
Drill rig, rotary type	CNP 072	1	110	80%	0	-10	99
Water pump (electric)	CNP 281	1	88	100%	0	0	88
Overall Noise Level, dB(A)							99

Temporary Bridge Removal and Reinstate Landscaping

(10/2015)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
Excavator	BS D3/35	1	106	40%	0	-5	97
Dump truck	BS D9/24	2	104	30%	0	0	102
Crane, mobile	BS D7/101	1	94	90%	0	0	94
Welder/generator	CNP 107	1	100	40%	0	0	96
Overall Noise Level, dB(A)							104

Appendix 9.8 Construction Plant Inventory for SCL (HUH-ADM)- Mitigated Scenario

Plant Inventory for Construction Noise Assessment - SOV to EXH

Scenario: Mitigated ▼

Package: 08 TBM Tunnels SOV to EXH

* The Works Area with length to width ratio exceeding 5 : 1 is divided into Subareas.

Underpinning of Canal Road Flyover

Site Clearance and Hoarding and Utility diversion

(05/2015)

	PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
Excavator		BS D3/35	1	106	80%	0	-5	100
Air Compressor		CNP 002	1	102	40%	0	-10	88
Hand held breaker		CNP 025	2	111	40%	0	-5	105
Dump truck with grab		CNP 069	1	105	60%	0	0	103
Welder/generator		CNP 107	1	100	40%	0	0	96
Overall Noise Level, dB(A)								108

Excavation and Construction of pre-bored H-piles

(06/2015-02/2016)

	PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
Crane, mobile		BS D7/101	1	94	60%	0	0	92
Lorry with crane/grab		CNP 145	1	105	40%	0	0	101
Rock Drill		Ref 1	1	108	30%	0	0	103
Air Compressor		CNP 002	1	102	100%	0	-10	92
Piling, large diameter bored, grab and chisel		CNP 164	1	115	70%	0	-10	103
Welder/generator, portable		CNP 107	1	100	50%	0	0	97
Overall Noise Level, dB(A)								108

Ref 1 - SWL for Rock Drill is made reference to the approved EIA Report of "Tsim Sha Tsui Station Northern Subway" (Register No.: AEIAR-127/2008)

Construct new pile cap and ground beams

(03/2016-09/2016)

	PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
Poker, vibrator, hand-held		BS D6/40	3	98	30%	0	0	98
Concrete lorry mixer		BS D6/33	1	96	30%	0	0	91
Excavator		BS D3/35	1	106	30%	0	-5	96
Dump truck with grab		CNP 069	1	105	30%	0	0	100
Overall Noise Level, dB(A)								103

Backfill and reinstatement

(10/2016)

	PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
Mini backhoe		CNP 082	1	94	80%	0	0	93
Excavator		BS D3/35	1	106	30%	0	-5	96
Compactor, vibratory		CNP 050	1	105	30%	0	0	100
Overall Noise Level, dB(A)								102

Appendix 9.8 Construction Plant Inventory for SCL (HUH-ADM)- Mitigated Scenario

Plant Inventory for Construction Noise Assessment - SOV to EXH

Scenario:

Mitigated

Package: 08 TBM Tunnels SOV to EXH

* The Works Area with length to width ratio exceeding 5 : 1 is divided into Subareas.

Diversion of Canal Road Culvert & Removal of Piles

Site Clearance and Hoarding and Utility diversion

(02/2014-03/2014)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
Excavator	BS D3/35	1	106	40%	0	-5	97
Air Compressor	CNP 002	1	102	50%	0	-10	89
Lorry with crane/grab	CNP 145	1	105	60%	0	0	103
Hand held breaker	CNP 025	1	111	50%	0	-5	103
Dump truck with grab	CNP 069	1	105	60%	0	0	103
Welder/generator	CNP 107	1	100	40%	0	0	96
Overall Noise Level, dB(A)							108

Culvert Diversion

(04/2014-04/2015)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
Mini Backhoe	CNP 082	1	94	50%	0	0	91
Dump Truck	BS D9/24	1	104	30%	0	0	99
Bar Bender and Cutter	CNP 021	1	90	30%	0	0	85
Concrete Mixer Truck	BS D6/33	1	96	30%	0	0	91
Overall Noise Level, dB(A)							100

Remove of piles

(09/2014-02/2015)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
Air Compressor	CNP 002	1	102	30%	0	-10	87
Hand held breaker	CNP 025	2	111	30%	0	-5	104
Dump truck with grab	CNP 069	1	105	30%	0	0	100
Welder/generator	CNP 107	1	100	30%	0	0	95
Crane, mobile	BS D7/101	1	94	40%	0	0	90
Piling, large diameter bored, grab and chisel	CNP 164	1	115	60%	0	-10	103
Overall Noise Level, dB(A)							108

Appendix 9.8 Construction Plant Inventory for SCL (HUH-ADM)- Mitigated Scenario

Plant Inventory for Construction Noise Assessment - SOV to EXH

Scenario:

Mitigated

Package: 08 TBM Tunnels SOV to EXH

* The Works Area with length to width ratio exceeding 5 : 1 is divided into Subareas.

Pile Removal at Wan Shing Street Footbridge

Site Clearance and Hoarding and Utility diversion

(02/2014-03/2014)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
Excavator	BS D3/35	1	106	80%	0	-5	100
Air Compressor	CNP 002	1	102	40%	0	-10	88
Hand held breaker	CNP 025	2	111	40%	0	-5	105
Dump truck with grab	CNP 069	1	105	60%	0	0	103
Welder/generator	CNP 107	1	100	40%	0	0	96
Overall Noise Level, dB(A)							108

Construction of new footbridge

(04/2014-04/2015)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
Welder/generator, portable	CNP 107	1	100	30%	0	0	95
Piling, large diameter bored, grab and chisel	CNP 164	1	115	30%	0	-10	100
Rock Drill	Ref 1	1	108	30%	0	0	103
Poker, vibrator, hand-held	BS D6/40	3	98	40%	0	0	99
Concrete lorry mixer	BS D6/33	1	96	40%	0	0	92
Lorry with crane/grab	CNP 145	1	105	50%	0	0	102
Excavator	BS D3/35	1	106	30%	0	-5	96
Overall Noise Level, dB(A)							108
*Subarea Noise Level (Work Site 30401), dB(A)							105
*Subarea Noise Level (Work Site 30402), dB(A)							105

Demolition of existing footbridge

(06/2015)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
Saw, concrete	CNP 203	1	115	30%	0	-10	100
Air Compressor	CNP 002	1	102	50%	0	-10	89
Hand held breaker	CNP 025	2	111	50%	0	-5	106
Dump truck with grab	CNP 069	1	105	80%	0	0	104
Welder/generator	CNP 107	1	100	60%	0	0	98
Excavator	BS D3/35	1	106	50%	0	-5	98
Hydraulic breaker	BS D8/13	1	110	50%	0	-5	102
Overall Noise Level, dB(A)							110

Removal of piles for existing footbridge & abandoned box culvert

(07/2015-09/2015)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
Rock Drill Crawler	CNP 182	1	123	50%	0	0	120
Excavator	BS D3/35	1	106	50%	0	-5	98
Grout mixer	CNP 105	1	90	30%	0	0	85
Grout pump	CNP 106	1	105	30%	0	-10	90
Air Compressor	CNP 002	1	102	50%	0	-10	89
Dump truck with grab	CNP 069	1	105	40%	0	0	101
Welder/generator	CNP 107	1	100	30%	0	0	95
Crane, mobile	BS D7/101	1	94	70%	0	0	92
Overall Noise Level, dB(A)							120

Reinstatement

(10/2015)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
Welder/generator, portable	CNP 107	1	100	40%	0	0	96
Excavator	BS D3/35	1	106	70%	0	-5	99
Lorry with crane/grab	CNP 145	1	105	30%	0	0	100
Overall Noise Level, dB(A)							103

Appendix 9.8 Construction Plant Inventory for SCL (HUH-ADM)- Mitigated Scenario

Plant Inventory for Construction Noise Assessment - SOV to EXH

Scenario:

Mitigated

Package: 08 TBM Tunnels SOV to EXH

* The Works Area with length to width ratio exceeding 5 : 1 is divided into Subareas.

Underpinning of Pier of Causeway Flyover

Site Clearance and Hoarding and Utility diversion

(05/2015)

	PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
Excavator		BS D3/35	1	106	80%	0	-5	100
Air Compressor		CNP 002	1	102	40%	0	-10	88
Hand held breaker		CNP 025	2	111	40%	0	-5	105
Dump truck with grab		CNP 069	1	105	60%	0	0	103
Welder/generator		CNP 107	1	100	40%	0	0	96
Overall Noise Level, dB(A)								108

Excavation and Construction of new piles

(06/2015-06/2016)

	PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
Lorry with crane/grab		CNP 145	1	105	30%	0	0	100
Rock Drill		Ref 1	1	108	30%	0	0	103
Excavator		BS D3/35	1	106	60%	0	-5	99
Piling, large diameter bored, grab and chisel		CNP 164	1	115	40%	0	-10	101
Welder/generator, portable		CNP 107	1	100	80%	0	0	99
Overall Noise Level, dB(A)								108

Construct pile cap

(09/2015-07/2016)

	PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
Poker, vibrator, hand-held		BS D6/40	2	98	30%	0	0	96
Excavator		BS D3/35	1	106	60%	0	-5	99
Concrete lorry mixer		BS D6/33	1	96	30%	0	0	91
Overall Noise Level, dB(A)								101

Remove piles

(04/2016-09/2016)

	PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
Air Compressor		CNP 002	1	102	30%	0	-10	87
Hand held breaker		CNP 025	2	111	30%	0	-5	104
Dump truck with grab		CNP 069	1	105	30%	0	0	100
Welder/generator		CNP 107	1	100	30%	0	0	95
Crane, mobile		BS D7/101	1	94	40%	0	0	90
Piling, large diameter bored, grab and chisel		CNP 164	1	115	60%	0	-10	103
Overall Noise Level, dB(A)								108

Backfill and reinstatement

(10/2016)

	PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
Dump truck with grab		CNP 069	1	105	30%	0	0	100
Mini backhoe		CNP 082	1	94	60%	0	0	92
Compactor, vibratory		CNP 050	1	105	30%	0	0	100
Overall Noise Level, dB(A)								103

Appendix 9.8 Construction Plant Inventory for SCL (HUH-ADM)- Mitigated Scenario

Plant Inventory for Construction Noise Assessment - SOV to EXH

Scenario:

Mitigated ▼

Package: 08 TBM Tunnels SOV to EXH

* The Works Area with length to width ratio exceeding 5 : 1 is divided into Subareas.

Underpinning of Abutment of Causeway Flyover

Site Clearance and Hoarding and Utility diversion

(05/2015)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
Excavator	BS D3/35	1	106	80%	0	-5	100
Air Compressor	CNP 002	1	102	40%	0	-10	88
Hand held breaker	CNP 025	2	111	40%	0	-5	105
Dump truck with grab	CNP 069	1	105	60%	0	0	103
Welder/generator	CNP 107	1	100	40%	0	0	96
Overall Noise Level, dB(A)							108

Excavation and Construction of new piles

(06/2015-06/2016)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
Lorry with crane/grab	CNP 145	1	105	30%	0	0	100
Rock Drill	Ref 1	1	108	30%	0	0	103
Excavator	BS D3/35	1	106	60%	0	-5	99
Piling, large diameter bored, grab and chisel	CNP 164	1	115	40%	0	-10	101
Welder/generator, portable	CNP 107	1	100	80%	0	0	99
Overall Noise Level, dB(A)							108

Construct pile cap

(09/2015-07/2016)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
Poker, vibrator, hand-held	BS D6/40	2	98	30%	0	0	96
Excavator	BS D3/35	1	106	60%	0	-5	99
Concrete lorry mixer	BS D6/33	1	96	30%	0	0	91
Overall Noise Level, dB(A)							101

Remove piles

(04/2016-09/2016)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
Air Compressor	CNP 002	1	102	30%	0	-10	87
Hand held breaker	CNP 025	2	111	30%	0	-5	104
Dump truck with grab	CNP 069	1	105	30%	0	0	100
Welder/generator	CNP 107	1	100	30%	0	0	95
Crane, mobile	BS D7/101	1	94	40%	0	0	90
Piling, large diameter bored, grab and chisel	CNP 164	1	115	60%	0	-10	103
Overall Noise Level, dB(A)							108

Backfill and reinstatement

(10/2016)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
Dump truck with grab	CNP 069	1	105	30%	0	0	100
Mini backhoe	CNP 082	1	94	60%	0	0	92
Compactor, vibratory	CNP 050	1	105	30%	0	0	100
Overall Noise Level, dB(A)							103

Appendix 9.8 Construction Plant Inventory for SCL (HUH-ADM)- Mitigated Scenario

Plant Inventory for Construction Noise Assessment - SOV to EXH

Scenario:

Mitigated

Package: 08 TBM Tunnels SOV to EXH

* The Works Area with length to width ratio exceeding 5 : 1 is divided into Subareas.

Grouting Work for DSD 1.8m Truck Sewers

Site Clearance and Hoarding and Utility diversion

(09/2014)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
Breaker, hand-held, mass > 35kg	CNP 026	1	114	30%	0	-5	104
Excavator	BS D3/35	1	106	30%	0	-5	96
Crane lorry, mobile	BS D7/101	1	94	30%	0	0	89
Dump truck	BS D9/24	1	104	30%	0	0	99
Poker, vibrator, hand-held	BS D6/40	1	98	30%	0	0	93
Air Compressor	CNP 002	1	102	30%	0	-10	87
Concrete lorry mixer	BS D6/33	1	96	30%	0	0	91
Overall Noise Level, dB(A)							106

Temp Access Shaft - Diaphragm wall

(10/2014-02/2015)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
Generator, standard	CNP 103	1	95	30%	0	-10	80
Dump truck	BS D9/24	1	104	30%	0	0	99
Crawler crane, mobile	BS D7/112	1	102	35%	0	0	97
Piling, diaphragm wall, bentonite filtering plant	CNP 162	1	105	30%	0	-10	90
Bar bender and cutter (electric)	CNP 021	1	90	30%	0	-10	75
Crane lorry, mobile	BS D7/101	1	94	30%	0	0	89
Concrete lorry mixer	BS D6/33	1	96	30%	0	0	91
Overall Noise Level, dB(A)							102

Temp Access Shaft - Excavation

(03/2015-04/2015)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
Excavator	BS D3/35	1	106	30%	-10	0	91
Water Pump, submersible (electric)	CNP 283	1	85	30%	-10	0	70
Ventilation Fans	CNP 241	1	108	30%	0	0	103
Dump Truck	BS D9/24	1	104	30%	0	0	99
Overall Noise Level, dB(A)							104

Grouting from within the shaft

(05/2015-06/2015)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
Drill rig, rotary type	CNP 072	1	110	35%	-10	0	95
Grout Mixer	CNP 105	1	90	35%	0	0	85
Grout Pump	CNP 106	1	105	35%	0	-10	90
Overall Noise Level, dB(A)							97

Backfilling and Reinstatement

(07/2015-08/2015)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
Excavator	BS D3/35	1	106	30%	-10	0	91
Water Pump, submersible (electric)	CNP 283	1	85	30%	-10	0	70
Crawler crane, mobile	BS D7/112	1	102	30%	0	0	97
Ventilation Fans	CNP 241	1	108	30%	0	0	103
Concrete Lorry mixer	BS D6/33	1	96	30%	0	0	91
Dump Truck	BS D9/24	1	104	30%	0	0	99
Overall Noise Level, dB(A)							105

Appendix 9.8 Construction Plant Inventory for SCL (HUH-ADM)- Mitigated Scenario

Plant Inventory for Construction Noise Assessment - SOV to EXH

Scenario:

Mitigated

Package: 08 TBM Tunnels SOV to EXH

* The Works Area with length to width ratio exceeding 5 : 1 is divided into Subareas.

Demolition & Reprovisioning of Cross Harbour Tunnel Footbridge

Site Clearance and Hoarding and Utility diversion

(10/2014-12/2014)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
Excavator	BS D3/35	1	106	40%	0	-5	97
Air Compressor	CNP 002	1	102	50%	0	-10	89
Lorry with crane/grab	CNP 145	1	105	60%	0	0	103
Hand held breaker	CNP 025	1	111	50%	0	-5	103
Dump truck with grab	CNP 069	1	105	60%	0	0	103
Welder/generator	CNP 107	1	100	40%	0	0	96
Overall Noise Level, dB(A)							108

Construction of temporary footbridge

(01/2015-03/2015)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
Welder/generator, portable	CNP 107	1	100	70%	0	0	98
Lorry with crane/grab	CNP 145	1	105	60%	0	0	103
Overall Noise Level, dB(A)							104

Demolish of temp footbridge

(04/2015)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
Saw, concrete	CNP 203	1	115	30%	0	-10	100
Air Compressor	CNP 002	1	102	40%	0	-10	88
Hand held breaker	CNP 025	2	111	40%	0	-5	105
Dump truck with grab	CNP 069	1	105	80%	0	0	104
Welder/generator	CNP 107	1	100	30%	0	0	95
Lorry with crane/grab	CNP 145	1	105	60%	0	0	103
Excavator	BS D3/35	1	106	60%	0	-5	99
Hydraulic breaker	BS D8/13	1	110	60%	0	-5	103
Overall Noise Level, dB(A)							111

TBM Assemble, First and Second Drive and Retrieval

TBM Assembly

(08/2016-11/2016)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
In Shaft							
Welding Set	CNP 107	2	100	30%	-10	0	88
Drill, hand-held (electric)	CNP 065	1	98	100%	-10	0	88
Water Pump, submersible (electric)	CNP 283	1	85	100%	-10	0	75
At Surface							
Crane, mobile	BS D7/101	1	94	10%	0	0	84
Crawler crane, mobile	BS D7/112	1	102	60%	0	0	100
Tractor	CNP 222	1	118	20%	0	0	111
Lorry	BS D9/19	1	102	40%	0	0	98
Ventilation Fans	CNP 241	2	108	100%	0	0	111
Air compressor	CNP 002	1	102	100%	0	-10	92
Water Pump (electric)	CNP 281	1	88	80%	0	0	87
Overall Noise Level, dB(A)							114

1st Retrieval and reassembly TBM

(03/2017-07/2017)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
Above Ground							
Crane lorry, mobile	BS D7/101	2	94	60%	0	0	95
Tractor	CNP 222	1	118	30%	0	0	113
Lorry	BS D9/19	1	102	30%	0	0	97
Truck	BS D9/39	1	103	30%	0	0	98
Mobile Crane	BS D7/112	1	102	30%	0	0	97
Power pack for hand-held items of PME	CNP 168	1	100	30%	0	0	95
Drill, hand-held (electric)	CNP 065	1	98	40%	0	0	94
Ventilation fans	CNP 241	3	108	80%	0	0	112
Water pump, submersible (electric)	CNP 283	3	85	80%	0	0	89
Overall Noise Level, dB(A)							116

2nd Retrieval of TBM

(11/2017-12/2017)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
Above Ground							
Crane lorry, mobile	BS D7/101	2	94	60%	0	0	95
Tractor	CNP 222	1	118	30%	0	0	113
Lorry	BS D9/19	1	102	30%	0	0	97
Truck	BS D9/39	1	103	30%	0	0	98
Mobile Crane	BS D7/112	1	102	30%	0	0	97
Power pack for hand-held items of PME	CNP 168	1	100	30%	0	0	95
Drill, hand-held (electric)	CNP 065	1	98	40%	0	0	94
Ventilation fans	CNP 241	3	108	80%	0	0	112
Water pump, submersible (electric)	CNP 283	3	85	80%	0	0	89
Overall Noise Level, dB(A)							116

Appendix 9.8 Construction Plant Inventory for SCL (HUH-ADM)- Mitigated Scenario

Plant Inventory for Construction Noise Assessment - Convention Avenue Shaft to ADM

Scenario: Mitigated

Package: 05 TBM Tunnels EXH to ADM

Demolition of Fleet Arcade

Site Clearance (06/2014-07/2014)

	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
PME						
Excavator	BS D3/35	1	106	100%	-5	101
Dump Truck with Grab	CNP 069	1	105	30%	0	100
Breaker, excavator mounted (hydraulic)	BS D8/13	1	110	50%	-5	102
Air compressor	CNP 002	1	102	100%	-10	92
Generator, standard	CNP 103	1	95	100%	-10	85
Water Pump (electric)	CNP 281	1	88	30%	0	83
Saw, Concrete	CNP 203	1	115	30%	-10	100
Overall Noise Level, dB(A)						107

Site Hoarding Erection (08/2014)

	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
PME						
Excavator	BS D3/35	1	106	100%	-5	101
Drill, hand-held (electric)	CNP 065	1	98	100%	0	98
Generator, standard	CNP 103	1	95	100%	-10	85
Lorry with Grab	CNP 145	1	105	50%	0	102
Welding Set	CNP 107	2	100	30%	0	98
Overall Noise Level, dB(A)						106

Demolition of Fleet Arcade (09/2014-01/2015)

	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
PME						
Excavator	BS D3/35	1	106	100%	-5	101
Water Pump, submersible (electric)	CNP 283	1	85	100%	0	85
Breaker, excavator mounted (hydraulic)	BS D8/13	1	110	50%	-5	102
Crawler crane, mobile	BS D7/112	1	102	30%	0	97
Concrete Lorry mixer	BS D6/33	1	96	30%	0	91
Water Pump (electric)	CNP 281	1	88	40%	0	84
Dump Truck	BS D9/24	1	104	60%	0	102
Overall Noise Level, dB(A)						107

Pile Removal (02/2015)

	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
PME						
Excavator	BS D3/35	1	106	100%	-5	101
Breaker, excavator mounted (hydraulic)	BS D8/13	1	110	50%	-5	102
Breaker, hand-held	CNP 024	1	108	50%	-5	100
Air compressor	CNP 002	1	102	100%	-10	92
Drill rig, rotary type	CNP 072	1	110	70%	-10	98
Piling, earth auger, auger	CNP 167	1	114	80%	-10	103
Crawler crane, mobile	BS D7/112	2	102	60%	0	103
Generator, standard	CNP 103	1	95	100%	-10	85
Overall Noise Level, dB(A)						109

Appendix 9.8 Construction Plant Inventory for SCL (HUH-ADM)- Mitigated Scenario

Plant Inventory for Construction Noise Assessment - Convention Avenue Shaft to ADM

Scenario: Mitigated

Package: 05 TBM Tunnels EXH to ADM

Demolition of Pump House and Pile Removal at West Sewage Screening Plant

Site Formation (04/2014-05/2014)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Excavator	BS D3/35	1	106	100%	-5	101
Dump Truck with Grab	CNP 069	1	105	30%	0	100
Breaker, excavator mounted (hydraulic)	BS D8/13	1	110	50%	-5	102
Air compressor	CNP 002	1	102	100%	-10	92
Generator, standard	CNP 103	1	95	100%	-10	85
Water Pump (electric)	CNP 281	1	88	30%	0	83
Saw, Concrete	CNP 203	1	115	30%	-10	100
Overall Noise Level, dB(A)						107

Site Hoarding Erection (06/2014)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Excavator	BS D3/35	1	106	100%	-5	101
Drill, hand-held (electric)	CNP 065	1	98	100%	0	98
Generator, standard	CNP 103	1	95	100%	-10	85
Lorry with Grab	CNP 145	1	105	50%	0	102
Welding Set	CNP 107	2	100	30%	0	98
Overall Noise Level, dB(A)						106

Demolition of Pump House and Pile Removal (07/2014-09/2014)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Excavator	BS D3/35	1	106	100%	-5	101
Breaker, excavator mounted (hydraulic)	BS D8/13	1	110	50%	-5	102
Breaker, hand-held	CNP 024	1	108	50%	-5	100
Air compressor	CNP 002	1	102	100%	-10	92
Drill rig, rotary type	CNP 072	1	110	70%	-10	98
Piling, earth auger, auger	CNP 167	1	114	80%	-10	103
Crawler crane, mobile	BS D7/112	2	102	60%	0	103
Generator, standard	CNP 103	1	95	100%	-10	85
Overall Noise Level, dB(A)						109

TTMS & Lung King Street Culvert Diversion & Associated Pile Removal & Reinstatement

Site Formation (07/2014)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Excavator	BS D3/35	1	106	100%	-5	101
Dump Truck with Grab	CNP 069	1	105	30%	0	100
Breaker, excavator mounted (hydraulic)	BS D8/13	1	110	50%	-5	102
Air compressor	CNP 002	1	102	100%	-10	92
Generator, standard	CNP 103	1	95	100%	-10	85
Water Pump (electric)	CNP 281	1	88	30%	0	83
Saw, Concrete	CNP 203	1	115	30%	-10	100
Overall Noise Level, dB(A)						107

Site Hoarding Erection (08/2014)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Excavator	BS D3/35	1	106	100%	-5	101
Drill, hand-held (electric)	CNP 065	1	98	100%	0	98
Generator, standard	CNP 103	1	95	100%	-10	85
Lorry with Grab	CNP 145	1	105	50%	0	102
Welding Set	CNP 107	2	100	30%	0	98
Overall Noise Level, dB(A)						106

Pile Removal and Reinstatement (09/2014-11/2016)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Excavator	BS D3/35	1	106	100%	-5	101
Breaker, excavator mounted (hydraulic)	BS D8/13	1	110	50%	-5	102
Breaker, hand-held	CNP 024	1	108	50%	-5	100
Air compressor	CNP 002	1	102	100%	-10	92
Drill rig, rotary type	CNP 072	1	110	70%	-10	98
Piling, earth auger, auger	CNP 167	1	114	80%	-10	103
Crawler crane, mobile	BS D7/112	2	102	60%	0	103
Generator, standard	CNP 103	1	95	100%	-10	85
Overall Noise Level, dB(A)						109

Appendix 9.8 Construction Plant Inventory for SCL (HUH-ADM)- Mitigated Scenario

Plant Inventory for Construction Noise Assessment - Convention Avenue Shaft to ADM

Scenario: Mitigated

Package: 05 TBM Tunnels EXH to ADM

Reinstatement of Fleet Arcade

Foundation and Superstructure Construction

(01/2017-11/2017)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
Air Compressor	CNP 002	1	102	50%	0	-10	89
Bar Bender	CNP 021	2	90	30%	0	-10	78
Breaker, excavator mounted (hydraulic)	BS D8/13	1	110	30%	0	-5	100
Concrete lorry mixer	BS D6/33	1	96	30%	0	0	91
Concrete pump	BS D6/36	1	106	50%	0	-10	93
Crane lorry, mobile	BS D7/101	1	94	30%	0	0	89
Poker, vibrator, hand-held	BS D6/40	2	98	50%	0	0	98
Overall Noise Level, dB(A)							103

Convention Avenue Launching Shaft Construction

Site Formation

(03/2014-04/2014)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
Excavator	BS D3/35	1	106	100%	0	-5	101
Dump Truck with Grab	CNP 069	1	105	30%	0	0	100
Breaker, excavator mounted (hydraulic)	BS D8/13	1	110	50%	0	-5	102
Air compressor	CNP 002	1	102	100%	0	-10	92
Generator, standard	CNP 103	1	95	100%	0	-10	85
Water Pump (electric)	CNP 281	1	88	30%	0	0	83
Saw, Concrete	CNP 203	1	115	30%	0	-10	100
Overall Noise Level, dB(A)							107

Site Hoarding Erection

(05/2014)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
Excavator	BS D3/35	1	106	100%	0	-5	101
Drill, hand-held (electric)	CNP 065	1	98	100%	0	0	98
Generator, standard	CNP 103	1	95	100%	0	-10	85
Lorry with Grab	CNP 145	1	105	50%	0	0	102
Welding Set	CNP 107	2	100	30%	0	0	98
Overall Noise Level, dB(A)							106

Diaphragm Wall Excavation

(06/2014-10/2014)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
Air Compressor	CNP 002	1	102	100%	0	-10	92
Water Pump (electric)	CNP 281	3	88	80%	0	0	92
Crawler crane, mobile	BS D7/112	2	102	60%	0	0	103
Piling, diaphragm wall, benetonite filtering plant	CNP 162	1	105	100%	0	-10	95
Piling, diaphragm wall, hydraulic extractor	CNP 163	1	90	100%	0	-10	80
Bentonite Mixer	CNP 045	1	96	100%	0	0	96
Welding Set	CNP 107	2	100	30%	0	0	98
Overall Noise Level, dB(A)							105

Diaphragm Wall Reinforcement Fixing and Concrete Casting

(06/2014-10/2014)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
Air compressor	CNP 002	1	102	100%	0	-10	92
Water Pump (electric)	CNP 281	3	88	80%	0	0	92
Crawler crane, mobile	BS D7/112	2	102	60%	0	0	103
Piling, diaphragm wall, benetonite filtering plant	CNP 162	1	105	100%	0	-10	95
Piling, diaphragm wall, hydraulic extractor	CNP 163	1	90	100%	0	-10	80
Bar bender and cutter (electric)	CNP 021	1	90	50%	0	-10	77
Concrete lorry mixer	BS D6/33	2	96	50%	0	0	96
Overall Noise Level, dB(A)							105

Shaft Excavation

(11/2014-08/2015)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
In Shaft							
Excavator	BS D3/35	2	106	100%	-10	0	99
Breaker, excavator mounted (hydraulic)	BS D8/13	1	110	50%	-10	0	97
Breaker, hand-held	CNP 024	1	108	50%	-10	0	95
Welding Set	CNP 107	1	100	30%	-10	0	85
Water Pump, submersible (electric)	CNP 283	2	85	100%	-10	0	78
At Surface							
Gantry Crane (electric)	CNP 049	1	95	50%	0	0	92
Ventilation Fans	CNP 241	1	108	100%	0	0	108
Dump Truck	BS D9/24	1	104	80%	0	0	103
Air compressor	CNP 002	1	102	100%	0	-10	92
Water Pump (electric)	CNP 281	1	88	80%	0	0	87
Overall Noise Level, dB(A)							110

Appendix 9.8 Construction Plant Inventory for SCL (HUH-ADM)- Mitigated Scenario

Plant Inventory for Construction Noise Assessment - Convention Avenue Shaft to ADM

Scenario: Mitigated

Package: 05 TBM Tunnels EXH to ADM

TBM Assembly

(05/2016-11/2016)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
In Shaft							
Welding Set	CNP 107	2	100	30%	-10	0	88
Drill, hand-held (electric)	CNP 065	1	98	100%	-10	0	88
Water pump, submersible (electric)	CNP 283	1	85	100%	-10	0	75
At Surface							
Crane, mobile	BS D7/101	1	94	10%	0	0	84
Crawler crane, mobile	BS D7/112	1	102	60%	0	0	100
Tractor	CNP 222	1	118	20%	0	0	111
Lorry	BS D9/19	1	102	40%	0	0	98
Ventilation Fans	CNP 241	2	108	100%	0	0	111
Air compressor	CNP 002	1	102	100%	0	-10	92
Water Pump (electric)	CNP 281	1	88	80%	0	0	87
Overall Noise Level, dB(A)							114

TWL protection works from U/Track

(09/2016-11/2016)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
In Shaft							
Bar bender and cutter (electric)	CNP 021	1	90	50%	-10	0	77
Water Pump, submersible (electric)	CNP 283	2	85	100%	-10	0	78
Compactor, vibratory	CNP 050	1	105	50%	-10	0	92
At Surface							
Welding Set	CNP 107	1	100	30%	0	0	95
Ventilation Fans	CNP 241	1	108	100%	0	0	108
Slurry Treatment Plant (similar to bentonite filtering)	CNP 162	1	105	100%	0	0	105
Wheel Loader	BS D3/59	1	105	100%	0	0	105
Concrete lorry mixer	BS D6/33	2	96	50%	0	0	96
Crawler crane, mobile	BS D7/112	1	102	60%	0	0	100
Slurry Pump (similar to grout pump)	CNP 047	2	105	100%	0	0	108
Tower Crane	CNP 049	1	95	80%	0	0	94
Ventilation Fans	CNP 241	1	108	100%	0	0	108
Air compressor	CNP 002	1	102	100%	0	-10	92
Water Pump (electric)	CNP 281	2	88	80%	0	0	90
Dump Truck	BS D9/24	1	104	80%	0	0	103
Overall Noise Level, dB(A)							115

Retrieve & reassemble TBM, Second Drive (D/Track), 2nd retrieval

(12/2016-09/2017)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
Crane lorry, mobile	BS D7/101	2	94	60%	0	0	95
Tractor	CNP 222	1	118	30%	0	0	113
Lorry	BS D9/19	1	102	30%	0	0	97
Truck	BS D9/39	1	103	30%	0	0	98
Mobile Crane	BS D7/112	1	102	30%	0	0	97
Power pack for hand-held items of PME	CNP 168	1	100	30%	0	0	95
Drill, hand-held (electric)	CNP 065	1	98	40%	0	0	94
Ventilation fans	CNP 241	3	108	80%	0	0	112
Water pump, submersible (electric)	CNP 283	3	85	80%	0	0	89
Overall Noise Level, dB(A)							116

Completion of Structure after TBM retrieval

(10/2017-01/2018)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
In Shaft							
Drill, hand-held (electric)	CNP 065	1	98	100%	-10	0	88
At Surface							
Crawler crane, mobile	BS D7/112	1	102	30%	0	0	97
Ventilation Fans	CNP 241	2	108	100%	0	0	111
Lorry with crane/grab	CNP 145	1	105	40%	0	0	101
Overall Noise Level, dB(A)							112

Backfilling and Reinstatement

(02/2017-01/2018)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
In Shaft							
Excavator	BS D3/35	1	106	100%	-10	0	96
Water Pump, submersible (electric)	CNP 283	1	85	100%	-10	0	75
At Surface							
Crawler crane, mobile	BS D7/112	1	102	30%	0	0	97
Ventilation Fans	CNP 241	1	108	60%	0	0	106
Concrete Lorry mixer	BS D6/33	1	96	30%	0	0	91
Water Pump (electric)	CNP 281	1	88	40%	0	0	84
Dump Truck	BS D9/24	1	104	60%	0	0	102
Overall Noise Level, dB(A)							108

Appendix 9.8 Construction Plant Inventory for SCL (HUH-ADM)- Mitigated Scenario

Plant Inventory for Construction Noise Assessment - Hong Kong Park Ventilation Building (ADM Overrun Tunnel)

Scenario:

Mitigated ▼

Package: 03 Hong Kong Park Ventilation Building (ADM Overrun Tunnel)

Overrun Tunnel

ADM overrun tunnel (drill and blast)

(07/15-11/16)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
Rock Crusher	Note [1]	1	118	100%	-10	0	108
Rock drill, crawler mounted (hydraulic)	CNP 182	2	123	30%	-10	0	111
Breaker, hand-held	CNP 024	4	108	50%	-10	0	101
Rock drill	Ref 1	1	108	50%	-10	0	95
Excavator	BS D3/35	2	106	50%	-10	0	96
Backhoe with hydraulic breaker	BS D8/13	2	110	50%	-10	0	100
Front end loader	BS D3/97	1	105	100%	-10	0	95
Dump Truck	BS D9/24	6	104	50%	0	0	109
Air Compressor	CNP 002	1	102	100%	-10	0	92
Generator, standard	CNP 103	1	95	100%	-10	0	85
Overall Noise Level, dB(A)							115

ADM overrun tunnel lining works

(11/16-06/17)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
Crane, mobile	BS D7/101	2	94	100%	-10	0	87
Gantry Crane (electric)	CNP 049	1	95	100%	-10	0	85
Concrete lorry mixer	BS D6/33	4	96	100%	-10	0	92
Poker, vibrator, hand-held	BS D6/40	4	98	100%	-10	0	94
Air Compressor	CNP 002	1	102	100%	-10	0	92
Generator, standard	CNP 103	1	95	100%	-10	0	85
Overall Noise Level, dB(A)							98

Aboveground works and reinstatement

(06/17-03/18)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
Generator, standard	CNP 103	2	95	100%	0	-10	88
Air compressor	CNP 002	2	102	100%	0	-10	95
Front end loader	BS D3/97	2	105	70%	0	-5	101
Crane, mobile	BS D7/101	1	94	100%	0	0	94
Crane lorry, mobile	BS D7/101	1	94	100%	0	0	94
Dump Truck	BS D9/24	8	104	70%	0	0	111
Concrete lorry mixer	BS D6/33	1	96	100%	0	0	96
Lorry	BS D9/19	4	102	70%	0	0	106
Overall Noise Level, dB(A)							113

Appendix 9.8 Construction Plant Inventory for SCL (HUH-ADM)- Mitigated Scenario

Plant Inventory for Construction Noise Assessment - EXH

Scenario:

Mitigated

Package: 07 EXH

Temporary PTI Construction

Temporary PTI Construction

(07/2013-09/2013)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
At all areas within Temporary PTI							
Asphalt paver	BS D8/24	1	101	60%	0	-5	94
Roller, vibratory	BS D8/30	1	101	80%	0	0	100
Overall Noise Level, dB(A)							101

EXH Structure

(i) At Harbour Road Sports Centre / Wan Chai Swimming Pool Site Hoarding Erection

(06/2013)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
Excavator	BS D3/35	1	106	100%	0	-5	101
Drill, hand-held (electric)	CNP 065	1	98	100%	0	0	98
Generator, standard	CNP 103	1	95	100%	0	-10	85
Lorry with Grab	CNP 145	1	105	50%	0	0	102
Welding Set	CNP 107	2	100	30%	0	0	98
Overall Noise Level, dB(A)							106

Demolition of staircase & relocation of oil tank

(07/2013)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
Saw, concrete	CNP 203	1	115	30%	0	-10	100
Air Compressor	CNP 002	1	102	40%	0	-10	88
Hand held breaker	CNP 025	1	111	40%	0	-5	102
Dump truck with grab	CNP 069	1	105	80%	0	0	104
Welder/generator	CNP 107	1	100	30%	0	0	95
Crane, mobile	BS D7/101	1	94	40%	0	0	90
Excavator	BS D3/35	1	106	60%	0	-5	99
Hydraulic breaker	BS D8/13	1	110	60%	0	-5	103
Overall Noise Level, dB(A)							109

Demolition of staircase of existing FB linking Causeway Center and Harbour Centre

(07/2013)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
Saw, concrete	CNP 203	1	115	30%	0	-10	100
Air Compressor	CNP 002	1	102	40%	0	-10	88
Hand held breaker	CNP 025	1	111	40%	0	-5	102
Dump truck with grab	CNP 069	1	105	80%	0	0	104
Welder/generator	CNP 107	1	100	30%	0	0	95
Crane, mobile	BS D7/101	1	94	40%	0	0	90
Excavator	BS D3/35	1	106	60%	0	-5	99
Hydraulic breaker	BS D8/13	1	110	60%	0	-5	103
Overall Noise Level, dB(A)							109

Demolition of elevated walkway to Harbour Road Sports Centre

(07/2013)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
Breaker, excavator mounted (hydraulic)	BS D8/13	2	110	70%	0	-5	106
Dump Truck	BS D9/24	2	104	30%	0	0	102
Overall Noise Level, dB(A)							108

Appendix 9.8 Construction Plant Inventory for SCL (HUH-ADM)- Mitigated Scenario

Plant Inventory for Construction Noise Assessment - EXH

Scenario:

Mitigated

Package: 07 EXH

Temporary filtration plant room construction

(07/2013-04/2014)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
Excavator, tracked	BS D3/35	1	106	30%	0	0	101
Dump Truck	BS D9/24	2	104	30%	0	0	102
Overall Noise Level, dB(A)							104

Demolition of staircase of existing FB across Harbour Road near Sun Hung Kei Centre

(07/2013)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
Saw, concrete	CNP 203	1	115	30%	0	-10	100
Air Compressor	CNP 002	1	102	40%	0	-10	88
Hand held breaker	CNP 025	1	111	40%	0	-5	102
Dump truck with grab	CNP 069	1	105	80%	0	0	104
Welder/generator	CNP 107	1	100	30%	0	0	95
Crane, mobile	BS D7/101	1	94	40%	0	0	90
Excavator	BS D3/35	1	106	60%	0	-5	99
Hydraulic breaker	BS D8/13	1	110	60%	0	-5	103
Overall Noise Level, dB(A)							109

Piling works for Phase 1 structure

(07/2013-11/2013)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
Piling, large diameter bored, grab and chisel	CNP 164	1	115	50%	0	-10	102
Piling, large diameter bored, oscillator	CNP 165	1	115	50%	0	-10	102
Piling, bentonite filtering plant	CNP 162	1	105	50%	0	-10	92
Piling, hydraulic extractor	CNP 163	1	90	50%	0	-10	77
Crane, mobile	BS D7/101	2	94	50%	0	0	94
Generator, super silenced	CNP 103	2	95	80%	0	0	97
Dump Truck	BS D9/24	4	104	40%	0	0	106
Bar Bender	CNP 021	1	90	30%	0	-10	75
Concrete lorry mixer	BS D6/33	1	96	30%	0	0	91
Overall Noise Level, dB(A)							109

Superstructure for Phase 1 structure

(12/2013-12/2014)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
Bar Bender	CNP 021	1	90	30%	0	-10	75
Poker, vibrator, hand-held	BS D6/40	6	98	30%	0	0	101
Air Compressor	CNP 002	2	102	70%	0	-10	93
Concrete lorry mixer	BS D6/33	6	96	30%	0	0	99
Concrete pump	BS D6/36	2	106	30%	0	-10	94
Crane, tower (electric)	CNP 049	1	95	36%	0	0	91
Overall Noise Level, dB(A)							104

Piling works for Phase 2 structure

(06/2014-07/2014)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
Piling, large diameter bored, grab and chisel	CNP 164	1	115	50%	0	-10	102
Piling, large diameter bored, oscillator	CNP 165	1	115	50%	0	-10	102
Piling, bentonite filtering plant	CNP 162	1	105	50%	0	-10	92
Piling, hydraulic extractor	CNP 163	1	90	50%	0	-10	77
Crane, mobile	BS D7/101	2	94	50%	0	0	94
Generator, super silenced	CNP 103	2	95	80%	0	0	97
Dump Truck	BS D9/24	4	104	40%	0	0	106
Bar Bender	CNP 021	1	90	30%	0	-10	75
Concrete lorry mixer	BS D6/33	1	96	30%	0	0	91
Overall Noise Level, dB(A)							109

Superstructure for Phase 2 structure

(08/2014-02/2015)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
Bar Bender	CNP 021	1	90	30%	0	-10	75
Poker, vibrator, hand-held	BS D6/40	2	98	30%	0	0	96
Air Compressor	CNP 002	2	102	70%	0	-10	93
Concrete lorry mixer	BS D6/33	4	96	30%	0	0	97
Concrete pump	BS D6/36	2	106	30%	0	-10	94
Crane, tower (electric)	CNP 049	1	95	36%	0	0	91
Overall Noise Level, dB(A)							102

Roof Truss Installation

(02/2015)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
Welder/Generator	CNP 107	2	100	50%	0	0	100
Crane, mobile	BS D7/101	2	94	36%	0	0	93
Overall Noise Level, dB(A)							101

Appendix 9.8 Construction Plant Inventory for SCL (HUH-ADM)- Mitigated Scenario

Plant Inventory for Construction Noise Assessment - EXH

Scenario:

Mitigated

Package: 07 EXH

Roof Truss Erection

(02/2015)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
Generator, super silenced	CNP 103	1	95	50%	0	0	92
Crane, mobile	BS D7/101	1	94	36%	0	0	90
Overall Noise Level, dB(A)							94

E&M Installation

(10/2014-09/2015)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
Crane, mobile	BS D7/101	1	94	30%	0	0	89
Lorry	BS D9/19	1	102	30%	0	0	97
Lorry with crane/grab	CNP 145	1	105	30%	0	0	100
Overall Noise Level, dB(A)							102

Installing Hoarding

(11/2015)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
Generator, super silenced	CNP 103	1	95	70%	0	0	93
Lorry with crane/grab	CNP 145	1	105	60%	0	0	103
Lorry	BS D9/19	1	102	30%	0	0	97
Overall Noise Level, dB(A)							104

Demolition of Harbour Road Sports Centre & Wan Chai Swimming Pool

(12/2015-01/2016)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
Breaker, excavator mounted (hydraulic)	BS D8/13	2	110	70%	0	0	111
Dump Truck	BS D9/24	2	104	30%	0	0	102
Overall Noise Level, dB(A)							112

Pile Removal

(01/2016-02/2016)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
Excavator	BS D3/35	1	106	100%	0	0	106
Breaker, excavator mounted (hydraulic)	BS D8/13	1	110	50%	0	0	107
Breaker, hand-held	CNP 024	1	108	50%	0	0	105
Air compressor	CNP 002	1	102	100%	0	0	102
Drill rig, rotary type	CNP 072	1	110	70%	0	0	108
Piling, earth auger, auger	CNP 167	1	114	80%	0	0	113
Crawler Crane, mobile	BS D7/112	2	102	60%	0	0	103
Generator, standard	CNP 103	1	95	100%	0	0	95
Overall Noise Level, dB(A)							116

Diaphragm Wall Construction

(01/2016-04/2016)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
Above Ground							
Generator, standard	CNP 103	1	95	30%	0	0	90
Dump truck	BS D9/24	1	104	30%	0	0	99
Piling, diaphragm wall, bentonite filtering plant	CNP 162	1	105	40%	0	0	101
Bar bender and cutter (electric)	CNP 021	2	90	30%	0	0	88
Crane, tower (electric)	CNP 049	1	95	60%	0	0	93
Crane lorry, mobile	BS D7/101	1	94	30%	0	0	89
Poker, vibrator, hand-held	BS D6/40	2	98	30%	0	0	96
Air Compressor	CNP 002	1	102	30%	0	0	97
Concrete lorry mixer	BS D6/33	1	96	30%	0	0	91
Concrete pump	BS D6/36	1	106	30%	0	0	101
Overall Noise Level, dB(A)							107

Excavation

(05/2016-09/2016)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
Underground							
Crane lorry, mobile	BS D7/101	2	94	60%	0	0	95
Generator, standard	CNP 103	2	95	80%	0	-10	87
Lorry	BS D9/19	1	102	30%	0	0	97
Rock drill, crawler mounted (pneumatic)	CNP 181	1	128	30%	0	-10	113
Ventilation fans	CNP 241	2	108	70%	0	0	109
Power pack for hand-held items of PME	CNP 168	1	100	30%	0	0	95
Dump truck	BS D9/24	2	104	50%	0	0	104
Water pump (electric)	CNP 281	2	88	80%	0	0	90
Welder/ generator, portable	CNP 107	1	100	30%	0	0	95
Overall Noise Level, dB(A)							115

Appendix 9.8 Construction Plant Inventory for SCL (HUH-ADM)- Mitigated Scenario

Plant Inventory for Construction Noise Assessment - EXH

Scenario:

Mitigated

Package: 07 EXH

Construction of Internal Structures of Box Station

(10/2016-01/2017)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
Underground							
Crane lorry, mobile	BS D7/101	2	94	60%	0	0	95
Generator, standard	CNP 103	2	95	80%	0	-10	87
Lorry	BS D9/19	1	102	30%	0	0	97
Rock drill, crawler mounted (pneumatic)	CNP 181	1	128	30%	0	-10	113
Ventilation fans	CNP 241	2	108	70%	0	0	109
Power pack for hand-held items of PME	CNP 168	1	100	30%	0	0	95
Dump truck	BS D9/24	2	104	50%	0	0	104
Water pump (electric)	CNP 281	2	88	80%	0	0	90
Welder/ generator, portable	CNP 107	1	100	30%	0	0	95
Overall Noise Level, dB(A)							115

Construction of Station Box Roof Slab

(12/2016-02/2017)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
Above Ground							
Generator, standard	CNP 103	1	95	30%	0	0	90
Dump truck	BS D9/24	1	104	30%	0	0	99
Crane lorry, mobile	BS D7/101	1	94	30%	0	0	89
Poker, vibrator, hand-held	BS D6/40	3	98	30%	0	0	98
Air Compressor	CNP 002	1	102	30%	0	0	97
Concrete lorry mixer	BS D6/33	1	96	30%	0	0	91
Concrete pump	BS D6/36	1	106	30%	0	0	101
Overall Noise Level, dB(A)							105

Construction of Entrance and Vent Shafts

(01/2017-03/2017)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
Above Ground							
Generator, standard	CNP 103	1	95	30%	0	0	90
Dump truck	BS D9/24	2	104	30%	0	0	102
Crane lorry, mobile	BS D7/101	1	94	30%	0	0	89
Poker, vibrator, hand-held	BS D6/40	2	98	30%	0	0	96
Air Compressor	CNP 002	1	102	30%	0	0	97
Concrete lorry mixer	BS D6/33	1	96	30%	0	0	91
Concrete pump	BS D6/36	1	106	30%	0	0	101
Overall Noise Level, dB(A)							106

Backfilling and Reinstatement

(04/2017-11/2017)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
Excavator	BS D3/35	1	106	100%	0	0	106
Crawler crane, mobile	BS D7/112	1	102	30%	0	0	97
Ventilation Fans	CNP 241	1	108	60%	0	0	106
Concrete Lorry mixer	BS D6/33	1	96	30%	0	0	91
Water Pump (electric)	CNP 281	1	88	40%	0	0	84
Dump Truck	BS D9/24	1	104	60%	0	0	102
Overall Noise Level, dB(A)							110

(ii) At PTI Area

Site Hoarding Erection and utility diversion

(05/2013-06/2013)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
Excavator	BS D3/35	1	106	100%	0	0	106
Drill, hand-held (electric)	CNP 065	1	98	100%	0	0	98
Generator, standard	CNP 103	1	95	100%	0	0	95
Lorry with Grab	CNP 145	1	105	50%	0	0	102
Mini Backhoe	CNP 082	1	94	50%	0	0	91
Dump Truck	BS D9/24	1	104	30%	0	0	99
Welding Set	CNP 107	2	100	30%	0	0	98
Overall Noise Level, dB(A)							109

Construction of temporary Wan Chai Ferry Pier footbridge

(07/2013-11/2013)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
Welder/generator, portable	CNP 107	1	100	60%	0	0	98
Piling, large diameter bored, grab and chisel	CNP 164	1	115	40%	0	0	111
Rock Drill	Ref 1	1	108	30%	0	0	103
Poker, vibrator, hand-held	BS D6/40	3	98	30%	0	0	98
Concrete lorry mixer	BS D6/33	1	96	30%	0	0	91
Excavator	BS D3/35	1	106	30%	0	0	101
Overall Noise Level, dB(A)							112

Appendix 9.8 Construction Plant Inventory for SCL (HUH-ADM)- Mitigated Scenario

Plant Inventory for Construction Noise Assessment - EXH

Scenario: ▼

Package: 07 EXH

Demolition of existing Wan Chai Ferry Pier footbridge

(12/2013)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
Saw, concrete	CNP 203	1	115	30%	0	0	110
Air Compressor	CNP 002	1	102	60%	0	0	100
Hand held breaker	CNP 025	4	111	60%	0	0	115
Dump truck with grab	CNP 069	1	105	70%	0	0	103
Welder/generator	CNP 107	1	100	40%	0	0	96
Excavator	BS D3/35	1	106	50%	0	0	103
Hydraulic breaker	BS D8/13	1	110	50%	0	0	107
Overall Noise Level, dB(A)							117

Diaphragm Wall Construction

(10/2013-07/2014)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
Above Ground							
Generator, standard	CNP 103	1	95	30%	0	0	90
Dump truck	BS D9/24	1	104	30%	0	0	99
Piling, diaphragm wall, bentonite filtering plant	CNP 162	1	105	40%	0	0	101
Bar bender and cutter (electric)	CNP 021	2	90	30%	0	0	88
Crane, tower (electric)	CNP 049	1	95	50%	0	0	92
Crane lorry, mobile	BS D7/101	1	94	30%	0	0	89
Poker, vibrator, hand-held	BS D6/40	3	98	30%	0	0	98
Air Compressor	CNP 002	1	102	30%	0	0	97
Concrete lorry mixer	BS D6/33	1	96	30%	0	0	91
Concrete pump	BS D6/36	1	106	30%	0	0	101
Overall Noise Level, dB(A)							107

Roof Slab Construction

(08/2014-07/2015)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
Above Ground							
Generator, standard	CNP 103	1	95	30%	0	0	90
Dump truck	BS D9/24	1	104	30%	0	0	99
Crane lorry, mobile	BS D7/101	1	94	30%	0	0	89
Poker, vibrator, hand-held	BS D6/40	3	98	30%	0	0	98
Air Compressor	CNP 002	1	102	30%	0	0	97
Concrete lorry mixer	BS D6/33	1	96	30%	0	0	91
Concrete pump	BS D6/36	1	106	30%	0	0	101
Overall Noise Level, dB(A)							105

Excavation

(05/2015-12/2015)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
Underground							
Crane lorry, mobile	BS D7/101	2	94	60%	0	0	95
Generator, standard	CNP 103	2	95	80%	0	-10	87
Lorry	BS D9/19	1	102	30%	0	0	97
Rock drill, crawler mounted (pneumatic)	CNP 181	1	128	30%	0	-10	113
Ventilation fans	CNP 241	2	108	70%	0	0	109
Power pack for hand-held items of PME	CNP 168	1	100	30%	0	0	95
Dump truck	BS D9/24	2	104	50%	0	0	104
Water pump (electric)	CNP 281	2	88	80%	0	0	90
Welder/ generator, portable	CNP 107	1	100	30%	0	0	95
Overall Noise Level, dB(A)							115

Construction of Internal Structures of Box Station

(01/2016-05/2016)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
Underground							
Crane lorry, mobile	BS D7/101	2	94	60%	0	0	95
Generator, standard	CNP 103	2	95	80%	0	-10	87
Lorry	BS D9/19	1	102	30%	0	0	97
Rock drill, crawler mounted (pneumatic)	CNP 181	1	128	30%	0	-10	113
Ventilation fans	CNP 241	2	108	70%	0	0	109
Power pack for hand-held items of PME	CNP 168	1	100	30%	0	0	95
Dump truck	BS D9/24	2	104	50%	0	0	104
Water pump (electric)	CNP 281	2	88	80%	0	0	90
Welder/ generator, portable	CNP 107	1	100	30%	0	0	95
Overall Noise Level, dB(A)							115

Construction of Entrance and Vent Shafts

(04/2016-07/2016)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
Above Ground							
Generator, standard	CNP 103	1	95	30%	0	0	90
Dump truck	BS D9/24	2	104	30%	0	0	102
Crane lorry, mobile	BS D7/101	1	94	30%	0	0	89
Poker, vibrator, hand-held	BS D6/40	2	98	30%	0	0	96
Air Compressor	CNP 002	1	102	30%	0	0	97
Concrete lorry mixer	BS D6/33	1	96	30%	0	0	91
Concrete pump	BS D6/36	1	106	30%	0	0	101
Overall Noise Level, dB(A)							106

Appendix 9.8 Construction Plant Inventory for SCL (HUH-ADM)- Mitigated Scenario

Plant Inventory for Construction Noise Assessment - EXH

Scenario: Mitigated ▼

Package: 07 EXH

Construction of Station Box Roof Slab

(06/2016-09/2016)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
Above Ground							
Generator, standard	CNP 103	1	95	30%	0	0	90
Dump truck	BS D9/24	1	104	30%	0	0	99
Crane lorry, mobile	BS D7/101	1	94	30%	0	0	89
Poker, vibrator, hand-held	BS D6/40	3	98	30%	0	0	98
Air Compressor	CNP 002	1	102	30%	0	0	97
Concrete lorry mixer	BS D6/33	1	96	30%	0	0	91
Concrete pump	BS D6/36	1	106	30%	0	0	101
Overall Noise Level, dB(A)							105

Backfilling and Reinstatement

(11/2017-03/2018)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
Excavator	BS D3/35	1	106	100%	0	0	106
Crawler crane, mobile	BS D7/112	1	102	30%	0	0	97
Ventilation Fans	CNP 241	1	108	60%	0	0	106
Concrete Lorry mixer	BS D6/33	1	96	30%	0	0	91
Water Pump (electric)	CNP 281	1	88	40%	0	0	84
Dump Truck	BS D9/24	1	104	60%	0	0	102
Overall Noise Level, dB(A)							110

Site Hoarding Erection and utility diversion

(06/2017-07/2017)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
Excavator	BS D3/35	1	106	100%	0	0	106
Drill, hand-held (electric)	CNP 065	1	98	100%	0	0	98
Generator, standard	CNP 103	1	95	100%	0	0	95
Lorry with Grab	CNP 145	1	105	50%	0	0	102
Mini Backhoe	CNP 082	1	94	50%	0	0	91
Dump Truck	BS D9/24	1	104	30%	0	0	99
Welding Set	CNP 107	2	100	30%	0	0	98
Overall Noise Level, dB(A)							109

Piles, pile cap and column construction for new FB linking to existing Wan Chai elevated walkway system

(08/2017-10/2017)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
Crane, mobile	BS D7/101	2	94	30%	0	0	92
Lorry with crane/grab	CNP 145	2	105	30%	0	0	103
Rock Drill	Ref 1	2	108	30%	0	0	106
Air Compressor	CNP 002	2	102	30%	0	0	100
Piling, large diameter bored, grab and chisel	CNP 164	2	115	50%	0	0	115
Poker, vibrator, hand-held	BS D6/40	4	98	30%	0	0	99
Concrete lorry mixer	BS D6/33	2	96	30%	0	0	94
Welder/generator, portable	CNP 107	2	100	60%	0	0	101
Overall Noise Level, dB(A)							116

Ref 1 - SWL for Rock Drill is made reference to the approved EIA Report of "Tsim Sha Tsui Station Northern Subway" (Register No.: AEIAR-127/2008)

Deck construction for new FB linking to existing Wan Chai elevated walkway system

(11/2017-12/2017)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
Air Compressor	CNP 002	2	102	50%	0	0	102
Welder/generator	CNP 107	2	100	40%	0	0	99
Crane, mobile	BS D7/101	2	94	80%	0	0	96
Lorry with crane/grab	CNP 145	2	105	40%	0	0	104
Poker, vibrator, hand-held	BS D6/40	6	98	40%	0	0	102
Concrete lorry mixer	BS D6/33	2	96	40%	0	0	95
Overall Noise Level, dB(A)							109

Backfilling and Reinstatement

(01/2018)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
Excavator	BS D3/35	1	106	100%	0	0	106
Crawler crane, mobile	BS D7/112	1	102	30%	0	0	97
Ventilation Fans	CNP 241	1	108	60%	0	0	106
Concrete Lorry mixer	BS D6/33	1	96	30%	0	0	91
Water Pump (electric)	CNP 281	1	88	40%	0	0	84
Dump Truck	BS D9/24	1	104	60%	0	0	102
Overall Noise Level, dB(A)							110

Appendix 9.8 Construction Plant Inventory for SCL (HUH-ADM)- Mitigated Scenario

Plant Inventory for Construction Noise Assessment - EXH

Scenario:

Mitigated

Package: 07 EXH

(iii) At Fleming Road
Site Hoarding Erection

(08/2016)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
Excavator	BS D3/35	1	106	100%	0	0	106
Drill, hand-held (electric)	CNP 065	1	98	100%	0	0	98
Generator, standard	CNP 103	1	95	100%	0	0	95
Lorry with Grab	CNP 145	1	105	50%	0	0	102
Welding Set	CNP 107	2	100	30%	0	0	98
Overall Noise Level, dB(A)							109

Diaphragm Wall Construction

(09/2016-01/2017)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
Above Ground							
Generator, standard	CNP 103	1	95	30%	0	0	90
Dump truck	BS D9/24	1	104	30%	0	0	99
Piling, diaphragm wall, bentonite filtering plant	CNP 162	1	105	40%	0	0	101
Bar bender and cutter (electric)	CNP 021	2	90	30%	0	0	88
Crane, tower (electric)	CNP 049	1	95	50%	0	0	92
Crane lorry, mobile	BS D7/101	1	94	30%	0	0	89
Poker, vibrator, hand-held	BS D6/40	3	98	30%	0	0	98
Air Compressor	CNP 002	1	102	30%	0	0	97
Concrete lorry mixer	BS D6/33	1	96	30%	0	0	91
Concrete pump	BS D6/36	1	106	30%	0	0	101
Overall Noise Level, dB(A)							107

Roof Slab Construction

(02/2017-07/2017)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
Above Ground							
Generator, standard	CNP 103	1	95	30%	0	0	90
Dump truck	BS D9/24	1	104	30%	0	0	99
Crane lorry, mobile	BS D7/101	1	94	30%	0	0	89
Poker, vibrator, hand-held	BS D6/40	3	98	30%	0	0	98
Air Compressor	CNP 002	1	102	30%	0	0	97
Concrete lorry mixer	BS D6/33	1	96	30%	0	0	91
Concrete pump	BS D6/36	1	106	30%	0	0	101
Overall Noise Level, dB(A)							105

Utility diversion

(08/2017-11/2017)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
Mini Backhoe	CNP 082	1	94	50%	0	0	91
Dump Truck	BS D9/24	1	104	30%	0	0	99
Overall Noise Level, dB(A)							99

Excavation

(12/2017-03/2018)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
Underground							
Crane lorry, mobile	BS D7/101	2	94	60%	0	0	95
Generator, standard	CNP 103	2	95	80%	0	-10	87
Lorry	BS D9/19	1	102	30%	0	0	97
Rock drill, crawler mounted (pneumatic)	CNP 181	1	128	30%	0	-10	113
Ventilation fans	CNP 241	2	108	70%	0	0	109
Power pack for hand-held items of PME	CNP 168	1	100	30%	0	0	95
Dump truck	BS D9/24	2	104	50%	0	0	104
Water pump (electric)	CNP 281	2	88	80%	0	0	90
Welder/ generator, portable	CNP 107	1	100	30%	0	0	95
Overall Noise Level, dB(A)							115

Construction of Internal Structures of Box Station

(04/2018-07/2018)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
Underground							
Crane lorry, mobile	BS D7/101	2	94	60%	0	0	95
Generator, standard	CNP 103	2	95	80%	0	-10	87
Lorry	BS D9/19	1	102	30%	0	0	97
Rock drill, crawler mounted (pneumatic)	CNP 181	1	128	30%	0	-10	113
Ventilation fans	CNP 241	2	108	70%	0	0	109
Power pack for hand-held items of PME	CNP 168	1	100	30%	0	0	95
Dump truck	BS D9/24	2	104	50%	0	0	104
Water pump (electric)	CNP 281	2	88	80%	0	0	90
Welder/ generator, portable	CNP 107	1	100	30%	0	0	95
Overall Noise Level, dB(A)							115

Appendix 9.8 Construction Plant Inventory for SCL (HUH-ADM)- Mitigated Scenario

Plant Inventory for Construction Noise Assessment - EXH

Scenario: Mitigated

Package: 07 EXH

Construction of Entrance and Vent Shafts

(06/2018-08/2018)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
Above Ground							
Generator, standard	CNP 103	1	95	30%	0	0	90
Dump truck	BS D9/24	2	104	30%	0	0	102
Crane lorry, mobile	BS D7/101	1	94	30%	0	0	89
Poker, vibrator, hand-held	BS D6/40	2	98	30%	0	0	96
Air Compressor	CNP 002	1	102	30%	0	0	97
Concrete lorry mixer	BS D6/33	1	96	30%	0	0	91
Concrete pump	BS D6/36	1	106	30%	0	0	101
Overall Noise Level, dB(A)							106

Construction of Station Box Roof Slab

(07/2018-09/2018)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
Above Ground							
Generator, standard	CNP 103	1	95	30%	0	0	90
Dump truck	BS D9/24	1	104	30%	0	0	99
Crane lorry, mobile	BS D7/101	1	94	30%	0	0	89
Poker, vibrator, hand-held	BS D6/40	3	98	30%	0	0	98
Air Compressor	CNP 002	1	102	30%	0	0	97
Concrete lorry mixer	BS D6/33	1	96	30%	0	0	91
Concrete pump	BS D6/36	1	106	30%	0	0	101
Overall Noise Level, dB(A)							105

(iv) At Wan Chai Sports Ground/ Tonnochy Road Area
Site Clearance, Fencing and Hoarding

(04/2014)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
Above Ground							
Breaker, hand-held, mass > 35kg	CNP 026	1	114	30%	0	-5	104
Crane lorry, mobile	BS D7/101	1	94	50%	0	0	91
Dump truck	BS D9/24	1	104	30%	0	0	99
Poker, vibrator, hand-held	BS D6/40	2	98	30%	0	0	96
Air Compressor	CNP 002	1	102	30%	0	-10	87
Concrete lorry mixer	BS D6/33	1	96	30%	0	0	91
Lorry	BS D9/19	1	102	30%	0	0	97
Overall Noise Level, dB(A)							106

Demolition & temp re-provision of grandstand

(05/2014-09/2014)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
Above Ground							
Drill, percussive, hand-held	CNP 064	1	103	50%	0	0	100
Saw, concrete	CNP 203	2	115	50%	0	-10	105
Excavator	BS D3/35	1	106	50%	0	-5	98
Crane lorry, mobile	BS D7/101	1	94	50%	0	0	91
Dump truck	BS D9/24	1	104	30%	0	0	99
Lorry	BS D9/19	1	102	30%	0	0	97
Overall Noise Level, dB(A)							108

Diaphragm Wall Construction

(10/2014-04/2015)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
Above Ground							
Generator, standard	CNP 103	1	95	30%	0	-10	80
Dump truck	BS D9/24	1	104	30%	0	0	99
Piling, diaphragm wall, bentonite filtering plant	CNP 162	1	105	40%	0	-10	91
Bar bender and cutter (electric)	CNP 021	2	90	30%	0	-10	78
Crane lorry, mobile	BS D7/101	1	94	30%	0	0	89
Poker, vibrator, hand-held	BS D6/40	2	98	30%	0	0	96
Air Compressor	CNP 002	1	102	30%	0	-10	87
Concrete lorry mixer	BS D6/33	1	96	30%	0	0	91
Concrete pump	BS D6/36	1	106	30%	0	-10	91
Overall Noise Level, dB(A)							102

King Post Construction

(05/2015-07/2015)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
Above Ground							
Generator, standard	CNP 103	1	95	30%	0	-10	80
Crane lorry, mobile	BS D7/101	1	94	40%	0	0	90
Welder/ generator, portable	CNP 107	1	100	30%	0	0	95
Power rammer	CNP 169	1	108	80%	0	0	107
Lorry	BS D9/19	1	102	30%	0	0	97
Overall Noise Level, dB(A)							108

Appendix 9.8 Construction Plant Inventory for SCL (HUH-ADM)- Mitigated Scenario

Plant Inventory for Construction Noise Assessment - EXH

Scenario:

Mitigated

Package: 07 EXH

Excavation

(08/2015-11/2015)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
Underground							
Crane lorry, mobile	BS D7/101	2	94	60%	0	0	95
Generator, standard	CNP 103	2	95	80%	0	-10	87
Lorry	BS D9/19	1	102	30%	0	0	97
Rock drill, crawler mounted (pneumatic)	CNP 181	1	128	30%	0	-10	113
Ventilation fans	CNP 241	2	108	70%	-10	0	99
Power pack for hand-held items of PME	CNP 168	1	100	30%	-10	0	85
Dump truck	BS D9/24	2	104	50%	-10	0	94
Water pump (electric)	CNP 281	2	88	80%	-10	0	80
Welder/ generator, portable	CNP 107	1	100	30%	-10	0	85
Overall Noise Level, dB(A)							113

Retrieval of TBM (1st drive)

(11/2016)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
Above Ground							
Crane lorry, mobile	BS D7/101	2	94	60%	0	0	95
Tractor	CNP 222	1	118	30%	0	0	113
Lorry	BS D9/19	1	102	30%	0	0	97
Truck	BS D9/39	1	103	30%	0	0	98
Mobile Crane	BS D7/112	1	102	30%	0	0	97
Power pack for hand-held items of PME	CNP 168	1	100	30%	0	0	95
Drill, hand-held (electric)	CNP 065	1	98	40%	0	0	94
Ventilation fans	CNP 241	3	108	80%	0	0	112
Water pump, submersible (electric)	CNP 283	3	85	80%	0	0	89
Overall Noise Level, dB(A)							116

Retrieval of TBM (2nd drive)

(08/2017)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
Above Ground							
Crane lorry, mobile	BS D7/101	2	94	60%	0	0	95
Tractor	CNP 222	1	118	30%	0	0	113
Lorry	BS D9/19	1	102	30%	0	0	97
Truck	BS D9/39	1	103	30%	0	0	98
Mobile Crane	BS D7/112	1	102	30%	0	0	97
Power pack for hand-held items of PME	CNP 168	1	100	30%	0	0	95
Drill, hand-held (electric)	CNP 065	1	98	40%	0	0	94
Ventilation fans	CNP 241	3	108	80%	0	0	112
Water pump, submersible (electric)	CNP 283	3	85	80%	0	0	89
Overall Noise Level, dB(A)							116

Construction of Station Box Roof Slab

(09/2017-12/2017)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
Above Ground							
Generator, standard	CNP 103	1	95	30%	0	-10	80
Dump truck	BS D9/24	1	104	30%	0	0	99
Crane lorry, mobile	BS D7/101	1	94	30%	0	0	89
Poker, vibrator, hand-held	BS D6/40	3	98	30%	0	0	98
Air Compressor	CNP 002	1	102	30%	0	-10	87
Concrete lorry mixer	BS D6/33	1	96	30%	0	0	91
Concrete pump	BS D6/36	1	106	30%	0	-10	91
Overall Noise Level, dB(A)							102

Appendix 9.8 Construction Plant Inventory for SCL (HUH-ADM)- Mitigated Scenario

Plant Inventory for Construction Noise Assessment - EXH

Scenario:

Mitigated ▼

Package: 07 EXH

Construction of Internal Structures of Box Station

(01/2018-04/2018)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
Underground							
Crane lorry, mobile	BS D7/101	2	94	60%	0	0	95
Generator, standard	CNP 103	2	95	80%	0	-10	87
Lorry	BS D9/19	1	102	30%	0	0	97
Rock drill, crawler mounted (pneumatic)	CNP 181	1	128	30%	0	-10	113
Ventilation fans	CNP 241	2	108	70%	-10	0	99
Power pack for hand-held items of PME	CNP 168	1	100	30%	-10	0	85
dump truck	BS D9/24	2	104	50%	-10	0	94
Water pump (electric)	CNP 281	2	88	80%	-10	0	80
Welder/ generator, portable	CNP 107	1	100	30%	-10	0	85
Overall Noise Level, dB(A)							113

Re-provision of WCSP grandstand

(05/2018-08/2018)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
Generator, standard	CNP 103	1	95	30%	0	-10	80
Dump truck	BS D9/24	1	104	30%	0	0	99
Crane lorry, mobile	BS D7/101	1	94	30%	0	0	89
Poker, vibrator, hand-held	BS D6/40	3	98	30%	0	0	98
Air Compressor	CNP 002	1	102	30%	0	-10	87
Concrete lorry mixer	BS D6/33	1	96	30%	0	0	91
Concrete pump	BS D6/36	1	106	30%	0	-10	91
Overall Noise Level, dB(A)							102

Plant Inventory for Construction Noise Assessment - EXH to Convention Avenue Shaft - Construction of cut and cover tunnel

Scenario: Mitigated ▼

Package: 06 EXH to Shaft

Tunnel at West to EXH

(02/2015)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
Excavator	BS D3/35	1	106	100%	0	-5	101
Dump Truck with Grab	CNP 069	1	105	30%	0	0	100
Breaker, excavator mounted (hydraulic)	BS D8/13	1	110	50%	0	-5	102
Air compressor	CNP 002	1	102	100%	0	-10	92
Generator, standard	CNP 103	1	95	100%	0	-10	85
Water Pump (electric)	CNP 281	1	88	20%	0	0	81
Saw, Concrete	CNP 203	1	115	20%	0	-10	98
Overall Noise Level, dB(A)							107

(02/2015)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
Excavator	BS D3/35	1	106	100%	0	-5	101
Drill, hand-held (electric)	CNP 065	1	98	100%	0	0	98
Generator, standard	CNP 103	1	95	100%	0	-10	85
Lorry with Grab	CNP 145	1	105	50%	0	0	102
Welding Set	CNP 107	2	100	30%	0	0	98
Overall Noise Level, dB(A)							106

(09/2015-04/2016)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
In Shaft							
Excavator	BS D3/35	2	106	100%	-10	0	99
Breaker, excavator mounted (hydraulic)	BS D8/13	1	110	50%	-10	0	97
Breaker, hand-held	CNP 024	1	108	50%	-10	0	95
Welding Set	CNP 107	1	100	30%	-10	0	85
Water Pump, submersible (electric)	CNP 283	2	85	100%	-10	0	78
At Surface							
Gantry Crane (electric)	CNP 049	1	95	50%	0	0	92
Ventilation Fans	CNP 241	1	108	100%	0	0	108
Dump Truck	BS D9/24	1	104	80%	0	0	103
Air compressor	CNP 002	1	102	100%	0	-10	92
Water Pump (electric)	CNP 281	1	88	80%	0	0	87
Overall Noise Level, dB(A)							110

(05/2016-10/2016)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
In Shaft							
Bar bender and cutter (electric)	CNP 021	1	90	50%	-10	0	77
Water Pump, submersible (electric)	CNP 283	2	85	100%	-10	0	78
Compactor, vibratory	CNP 050	1	105	50%	-10	0	92
At Surface							
Concrete lorry mixer	BS D6/33	2	96	50%	0	0	96
Crawler crane, mobile	BS D7/112	1	102	60%	0	0	100
Ventilation Fans	CNP 241	2	108	100%	0	0	111
Air compressor	CNP 002	1	102	100%	0	-10	92
Water Pump (electric)	CNP 281	1	88	80%	0	0	87
Overall Noise Level, dB(A)							112

(03/2015-10/2016)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
Generator, standard	CNP 103	1	95	30%	0	-10	80
Dump truck	BS D9/24	1	104	20%	0	0	97
Piling, diaphragm wall, bentonite filtering plant	CNP 162	1	105	40%	0	-10	91
Bar bender and cutter (electric)	CNP 021	2	90	20%	0	-10	76
Crane, tower (electric)	CNP 049	1	95	50%	0	0	92
Crane lorry, mobile	BS D7/101	1	94	20%	0	0	87
Poker, vibrator, hand-held	BS D6/40	3	98	10%	0	0	93
Air Compressor	CNP 002	1	102	10%	0	-10	82
Concrete lorry mixer	BS D6/33	1	96	20%	0	0	89
Concrete pump	BS D6/36	1	106	20%	0	-10	89
Overall Noise Level, dB(A)							101

Appendix 9.8 Construction Plant Inventory for SCL (HUH-ADM)- Mitigated Scenario

Plant Inventory for Construction Noise Assessment - EXH to Convention Avenue Shaft - Construction of cut and cover tunnel

Scenario: Mitigated ▼

Package: 06 EXH to Shaft

Excavation (07/2015-02/2017)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
In Shaft							
Excavator	BS D3/35	2	106	100%	-10	0	99
Breaker, excavator mounted (hydraulic)	BS D8/13	1	110	50%	-10	0	97
Breaker, hand-held	CNP 024	1	108	50%	-10	0	95
Welding Set	CNP 107	1	100	30%	-10	0	85
Water Pump, submersible (electric)	CNP 283	2	85	100%	-10	0	78
At Surface							
Gantry Crane (electric)	CNP 049	1	95	50%	0	0	92
Ventilation Fans	CNP 241	1	108	100%	0	0	108
Dump Truck	BS D9/24	1	104	80%	0	0	103
Air compressor	CNP 002	1	102	100%	0	-10	92
Water Pump (electric)	CNP 281	1	88	80%	0	0	87
Overall Noise Level, dB(A)							110

Tunnel Box Structure Construction (03/2017-01/2018)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
In Shaft							
Bar bender and cutter (electric)	CNP 021	1	90	50%	-10	0	77
Water Pump, submersible (electric)	CNP 283	2	85	100%	-10	0	78
Compactor, vibratory	CNP 050	1	105	50%	-10	0	92
At Surface							
Concrete lorry mixer	BS D6/33	2	96	50%	0	0	96
Crawler crane, mobile	BS D7/112	1	102	60%	0	0	100
Ventilation Fans	CNP 241	2	108	100%	0	0	111
Air compressor	CNP 002	1	102	100%	0	-10	92
Water Pump (electric)	CNP 281	1	88	80%	0	0	87
Overall Noise Level, dB(A)							112

Backfilling and Superstructure (including EAP) Stage 1 (10/2016-04/2017) Stage 2 (02/2018)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
In Shaft							
Excavator	BS D3/35	1	106	100%	-10	0	96
Water pump, submersible (electric)	CNP 283	1	85	100%	-10	0	75
At Surface							
Crawler crane, mobile	BS D7/112	1	102	30%	0	0	97
Ventilation Fans	CNP 241	1	108	60%	0	0	106
Concrete Lorry mixer	BS D6/33	1	96	50%	0	0	93
Water Pump (electric)	CNP 281	1	88	40%	0	0	84
Dump Truck	BS D9/24	1	104	60%	0	0	102
Overall Noise Level, dB(A)							108

Appendix 9.8 Construction Plant Inventory for SCL (HUH-ADM)- Mitigated Scenario

Plant Inventory for Construction Noise Assessment - ADM Works for SCL

Scenario: Mitigated 

Contract 1124 - ADM Works for SCL

ADM Works

Spoil Removal

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
Dump Truck	BS D9/24	6	104	100%	0	0	112
Overall Noise Level, dB(A)							112

Aboveground works and reinstatement

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
Crane, mobile	BS D7/101	1	94	100%	0	0	94
Air Compressor	CNP 002	1	102	100%	0	-10	92
Generator, standa	CNP 103	1	95	100%	0	-10	85
Breaker, hand-hel	CNP 024	2	108	100%	0	-5	106
Poker, vibrator, ha	BS D6/40	2	98	100%	0	0	101
Concrete pump	BS D6/36	1	106	100%	0	-10	96
Dump Truck	BS D9/24	1	104	100%	0	0	104
Concrete lorry mix	BS D6/33	1	96	100%	0	0	96
Lorry	BS D9/19	1	102	100%	0	0	102
Overall Noise Level, dB(A)							110

Demolition of Ventilation Shaft X


(04/2016-08/2016)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Correction for Underground Works	Barrier Correction	Sub-total SWL
Crane, mobile	BS D7/101	1	94	100%	0	0	94
Excavator	BS D3/35	1	106	100%	0	-5	101
Breaker, hand-hel	CNP 024	6	108	100%	0	-5	111
Saw, concrete	CNP 203	1	115	100%	0	-10	105
Air compressor	CNP 002	2	102	100%	0	-10	95
Generator, standa	CNP 103	1	95	100%	0	-10	85
Dump truck	BS D9/24	2	104	100%	0	0	107
Overall Noise Level, dB(A)							113

Appendix 9.8 Construction Plant Inventory for SCL (HUH-ADM)- Mitigated Scenario

Plant Inventory for Construction Noise Assessment - Barging Point

Scenario:

Mitigated 

Package: Barging Point

Barging Point at Wan Chai Ex-PCWA

Spoil Disposal

(01/2015 - 09/2018)

	PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Conveyor belts		CNP 041	1	90	100%	0	90
Barges		CNP 061	1	104	30%	0	99
Truck		BS D9/39	9	103	60%	0	110
Front end loader		BS D3/97	1	105	30%	0	100
Overall Noise Level, dB(A)							111