

## ***Appendix 3.26***

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### ***Quiet Powered Mechanical Equipment (PME) for the Different Construction Tasks (With Mitigation Measures)***



Project: KTD Construction Noise (Package A)

Title: Calculation Sound Power Level

Scenario:

Mitigated ▼

Package A - Cruise Terminal Development and related advance works

A.1 Phase 1 Berth		(WorkSite ID = 101)					(1/6/09 - 1/6/10)
PME	Unit	TM Identification	SWL/unit	Utilisation Rate	Barrier Correction	Sub-total SWL	
Grab dredger	2	CNP 063	112	100%	0	115	
Derrick barge	2	CNP 061	104	100%	0	107	
Tug boat	2	CNP 221	110	100%	0	113	
Total SWL						118	

A.2 Road TD3, TD4, L14 and minor roadworks in Kowloon Bay		(WorkSite ID = 102 - 103)					(3/1/11-28/2/12)
PME	Unit	TM Identification	SWL/unit	Utilisation Rate	Barrier Correction	Sub-total SWL	
Dump Truck	2	BS Table C9 REF 24	104	65%	0	105	
Excavator	2	BS Table C3 REF 35	106	65%	-5	102	
Grader	2	BS Table C9 REF 8	111	50%	0	111	
Loader	2	BS Table C3 REF 59	105	50%	0	105	
Vibratory Roller	1	BS Table C3 REF 116	106	80%	0	105	
Road Roller	1	BS Table C8 REF 27	104	80%	0	103	
Asphalt Paver	2	BS Table C8 REF 24	101	50%	-5	96	
Planer	2	CNP 184	111	65%	0	112	
Total SWL						116	

A.3 Modification off Taxiway Bridge		(WorkSite ID = 104)					(14/3/09-29/2/12)
PME	Unit	TM Identification	SWL/unit	Utilisation Rate	Barrier Correction	Sub-total SWL	
Dump Truck	2	BS Table C9 REF 24	104	65%	0	105	
Excavator	2	BS Table C3 REF 35	106	65%	-5	102	
Grader	2	BS Table C9 REF 8	111	50%	0	111	
Loader	2	BS Table C3 REF 59	105	50%	0	105	
Vibratory Roller	1	BS Table C3 REF 116	106	80%	0	105	
Road Roller	1	BS Table C8 REF 27	104	80%	0	103	
Asphalt Paver	2	BS Table C8 REF 24	101	50%	-5	96	
Planer	2	CNP 184	111	65%	0	112	
Total SWL						116	

A.4 Pumping Station PS6		(WorkSite ID = 105)					(16/3/09-29/2/12)
PME	Unit	TM Identification	SWL/unit	Utilisation Rate	Barrier Correction	Sub-total SWL	
Crane	1	BS Table C7 REF 101	94	65%	0	92	
Concrete Pump	2	BS Table C6 REF 36	106	100%	-10	99	
Concrete Lorry Mixer	4	BS Table C6 REF 33	96	100%	0	102	
Poker Vibrator	2	BS Table No. C6 REF 40	98	70%	0	99	
Bar Bender	1	CNP 021	90	100%	-10	80	
Air Compressor	2	CNP 002	102	100%	-10	95	
Total SWL						106	

A.5 Fireboat Berth							
A.5a Dredging		(WorkSite ID = 106)					(16/3/09-29/2/12)
PME	Unit	TM Identification	SWL/unit	Utilisation Rate	Barrier Correction	Sub-total SWL	
Grab Dredger	2	CNP 063	112	100%	0	115	
Tug Boat	2	CNP 221	110	100%	0	113	
Barges	4	CNP 061	104	100%	0	110	
Total SWL						118	

A.5b Seawall Construction		(WorkSite ID = 107)					(16/3/09-29/2/12)
PME	Unit	TM Identification	SWL/unit	Utilisation Rate	Barrier Correction	Sub-total SWL	
Derrick Barge	2	CNP 061	104	100%	0	107	
Tug Boat	1	CNP 221	110	100%	0	110	
Crane	2	BS Table C7 REF 101	94	65%	0	95	
Barges	2	CNP 061	104	100%	0	107	
Total SWL						113	

A.5c Filling behind seawall		(WorkSite ID = 108)					(16/3/09-29/2/12)
PME	Unit	TM Identification	SWL/unit	Utilisation Rate	Barrier Correction	Sub-total SWL	
Derrick Barge	2	CNP 061	104	100%	0	107	
Barges	2	CNP 061	104	100%	0	107	
Tug Boat	2	CNP 221	110	100%	0	113	
Bulldozer	2	BS Table C9 Ref 2	104	100%	0	107	
Total SWL						115	

Project: KTD Construction Noise (Package A)

Title: Calculation Sound Power Level

Scenario:

Mitigated

(WorkSite ID = 109 - 110)							(16/3/09 - 2/6/11)
PME	Unit	TM Identification	SWL/unit	Utilisation Rate	Barrier Correction	Sub-total SWL	
Crane	1	BS Table C7 REF 101	94	65%	0	92	
Breaker, excavator mounted	1	BS Table C8 REF 13	110	80%	-5	104	
Excavator	1	BS Table C3 REF 35	106	65%	-5	99	
Dump Truck	2	BS Table C9 REF 24	104	65%	0	105	
Concrete Lorry Mixer	1	BS Table C6 REF 33	96	100%	0	96	
Poker Vibrator	2	BS Table No. C6 REF 40	98	70%	0	99	
Compactor, vibratory	1	CNP 050	105	70%	0	103	
Air compressor	1	CNP 002	102	100%	-10	92	
Total SWL						110	

(WorkSite ID = 111)							(13/3/12 - 11/3/13)
PME	Unit	TM Identification	SWL/unit	Utilisation Rate	Barrier Correction	Sub-total SWL	
Grab dredger	2	CNP 063	112	100%	0	115	
Derrick barge	2	CNP 061	104	100%	0	107	
Tug boat	2	CNP 221	110	100%	0	113	
Total SWL						118	

(WorkSite ID = 112 -113)							(15/5/08 - 31/3/10)
PME	Unit	TM Identification	SWL/unit	Utilisation Rate	Barrier Correction	Sub-total SWL	
Backhoe	2	BS Table C3 REF 35	106	100%	0	109	
Breaker, excavator mounted	2	BS Table C8 REF 13	110	80%	-5	107	
Hand-held Breaker	2	CNP 024	108	80%	-5	105	
Dump Truck	4	BS Table C9 REF 24	104	65%	0	108	
Crane	1	BS Table C7 REF 101	94	65%	0	92	
Total SWL						114	

(WorkSite ID = 112 -114)							(15/3/09-31/12/10)
PME	Unit	TM Identification	SWL/unit	Utilisation Rate	Barrier Correction	Sub-total SWL	
Backhoe	1	BS Table C3 REF 35	106	100%	0	106	
Breaker, excavator mounted	1	BS Table C8 REF 13	110	80%	-5	104	
Hand-held Breaker	1	CNP 024	108	80%	-5	102	
Dump Truck	1	BS Table C9 REF 24	104	65%	0	102	
Crane	1	BS Table C7 REF 101	94	65%	0	92	
Total SWL						110	

(WorkSite ID = 115)							(15/4/15-31/12/16)
PME	Unit	TM Identification	SWL/unit	Utilisation Rate	Barrier Correction	Sub-total SWL	
Crane	1	BS Table C7 REF 101	94	65%	0	92	
Concrete Pump	2	BS Table C6 REF 36	106	100%	-10	99	
Concrete Lorry Mixer	4	BS Table C6 REF 33	96	100%	0	102	
Poker Vibrator	2	BS Table No. C6 REF 40	98	70%	0	99	
Bar Bender	1	CNP 021	90	100%	-10	80	
Air Compressor	2	CNP 002	102	100%	-10	95	
Total SWL						106	

**Project: KTD Construction Noise (Package B)**

**Title: Calculation Sound Power Level**

**Scenario:**

Mitigated ▼

Package B - Infrastructure works at North Apron, Phase 1 - Housing Sites and Government Offices

1 Infrastructure works to serve Key Development in 2012

**B.1 Construction of Road D1 (part)**

(WorkSite ID = 201)

(30/9/09 - 1/4/10)

PME	Unit	TM Identification	SWL/unit	Utilisation Rate	Barrier Correction	Sub-total SWL
(Group 1 PME)						
Dump Truck	2	BS Table C9 REF 24	104	65%	0	105
Excavator	2	BS Table C3 REF 35	106	65%	-5	102
(Group 2 PME)						
Grader	2	BS Table C9 REF 8	111	50%	0	111
Loader	2	BS Table C3 REF 59	105	50%	0	105
(Group 3 PME)						
Vibratory Roller	1	BS Table C3 REF 116	106	80%	0	105
Road Roller	1	BS Table C8 REF 27	104	80%	0	103
Asphalt Paver	2	BS Table C8 REF 24	101	50%	-5	96
Planer	2	CNP 184	111	65%	0	112
<b>Max. Total SWL</b>						<b>113</b>

**B.2 Local Roads L2, L3, L15 and associated footpaths at North Apron**

(WorkSite ID = 202 - 204)

(2/5/11 - 28/9/12)

PME	Unit	TM Identification	SWL/unit	Utilisation Rate	Barrier Correction	Sub-total SWL
(Group 1 PME)						
Dump Truck	2	BS Table C9 REF 24	104	65%	0	105
Excavator	2	BS Table C3 REF 35	106	65%	-5	102
(Group 2 PME)						
Grader	2	BS Table C9 REF 8	111	50%	0	111
Loader	2	BS Table C3 REF 59	105	50%	0	105
(Group 3 PME)						
Vibratory Roller	1	BS Table C3 REF 116	106	80%	0	105
Road Roller	1	BS Table C8 REF 27	104	80%	0	103
Asphalt Paver	2	BS Table C8 REF 24	101	50%	-5	96
Planer	2	CNP 184	111	65%	0	112
<b>Max. Total SWL</b>						<b>113</b>

**B.3 Local Roads L4**

(WorkSite ID = 205)

(2/5/11 - 30/4/13)

PME	Unit	TM Identification	SWL/unit	Utilisation Rate	Barrier Correction	Sub-total SWL
(Group 1 PME)						
Dump Truck	1	BS Table C9 REF 24	104	65%	0	102
Excavator	1	BS Table C3 REF 35	106	65%	-5	99
(Group 2 PME)						
Grader	1	BS Table C9 REF 8	111	50%	0	108
Loader	1	BS Table C3 REF 59	105	50%	0	102
(Group 3 PME)						
Vibratory Roller	1	BS Table C3 REF 116	106	80%	0	105
Road Roller	1	BS Table C8 REF 27	104	80%	0	103
Asphalt Paver	1	BS Table C8 REF 24	101	50%	-5	93
Planer	1	CNP 184	111	65%	0	109
<b>Max. Total SWL</b>						<b>111</b>

**B.4 Construction of Subway SB-06**

(WorkSite ID = 206 - 207)

(28/6/11 - 28/9/12)

PME	Unit	TM Identification	SWL/unit	Utilisation Rate	Barrier Correction	Sub-total SWL
Dump Truck	1	BS Table C9 REF 24	104	65%	0	102
Concrete Lorry Mixer	1	BS Table C6 REF 33	96	100%	0	96
Excavator	1	BS Table C3 REF 35	106	65%	-5	99
Poker Vibrator	2	BS Table No. C6 REF 40	98	70%	0	99
Bulldozer	1	BS Table C9 Ref 2	104	100%	0	104
Roller	1	BS Table C8 REF 30	101	100%	0	101
Bar Bender	2	CNP 021	90	100%	-10	83
Air Compressor	2	CNP 002	102	100%	-10	95
<b>Total SWL</b>						<b>109</b>

**B.5 Construction of Subway SB-07**

(WorkSite ID = 208 - 209)

(28/6/11 - 28/9/12)

PME	Unit	TM Identification	SWL/unit	Utilisation Rate	Barrier Correction	Sub-total SWL
Dump Truck	1	BS Table C9 REF 24	104	65%	0	102
Concrete Lorry Mixer	1	BS Table C6 REF 33	96	100%	0	96
Excavator	1	BS Table C3 REF 35	106	65%	-5	99
Poker Vibrator	2	BS Table No. C6 REF 40	98	70%	0	99
Bulldozer	1	BS Table C9 Ref 2	104	100%	0	104
Roller	1	BS Table C8 REF 30	101	100%	0	101
Bar Bender	2	CNP 021	90	100%	-10	83
Air Compressor	2	CNP 002	102	100%	-10	95
<b>Total SWL</b>						<b>109</b>

**Project: KTD Construction Noise (Package B)**

**Title: Calculation Sound Power Level**

Scenario:

Mitigated

B.6 Construction of Subway SB-08		(WorkSite ID = 210 - 211)				(1/7/09 - 30/4/13)
PME	Unit	TM Identification	SWL/unit	Utilisation Rate	Barrier Correction	Sub-total SWL
Dump Truck	1	BS Table C9 REF 24	104	65%	0	102
Concrete Lorry Mixer	1	BS Table C6 REF 33	96	100%	0	96
Excavator	1	BS Table C3 REF 35	106	65%	-5	99
Poker Vibrator	2	BS Table No. C6 REF 40	98	70%	0	99
Bulldozer	1	BS Table C9 Ref 2	104	100%	0	104
Roller	1	BS Table C8 REF 30	101	100%	0	101
Bar Bender	2	CNP 021	90	100%	-10	83
Air Compressor	2	CNP 002	102	100%	-10	95
Total SWL						109

B.7 Construction of Subway SB-09		(WorkSite ID = 212 - 213)				(28/9/11 - 28/9/12)
PME	Unit	TM Identification	SWL/unit	Utilisation Rate	Barrier Correction	Sub-total SWL
Dump Truck	1	BS Table C9 REF 24	104	65%	0	102
Concrete Lorry Mixer	1	BS Table C6 REF 33	96	100%	0	96
Excavator	1	BS Table C3 REF 35	106	65%	-5	99
Poker Vibrator	2	BS Table No. C6 REF 40	98	70%	0	99
Bulldozer	1	BS Table C9 Ref 2	104	100%	0	104
Roller	1	BS Table C8 REF 30	101	100%	0	101
Bar Bender	2	CNP 021	90	100%	-10	83
Air Compressor	2	CNP 002	102	100%	-10	95
Total SWL						109

B.8 Construction of Box Culvert (2.5m x 2.5m)		(WorkSite ID = 214)				(1/7/09 - 3/1/12)
PME	Unit	TM Identification	SWL/unit	Utilisation Rate	Barrier Correction	Sub-total SWL
Dump Truck	2	BS Table C9 REF 24	104	65%	0	105
Concrete Lorry Mixer	1	BS Table C6 REF 33	96	100%	0	96
Excavator	1	BS Table C3 REF 35	106	65%	-5	99
Poker Vibrator	2	BS Table No. C6 REF 40	98	70%	0	99
Bulldozer	1	BS Table C9 Ref 2	104	100%	0	104
Roller	1	BS Table C8 REF 30	101	100%	0	101
Bar Bender	1	CNP 021	90	100%	-10	80
Air Compressor	1	CNP 002	102	100%	-10	92
Total SWL						110

B.9 Construction of Box Culvert (3m x 2.8m)		(WorkSite ID = 215)				(1/7/09 - 3/1/12)
PME	Unit	TM Identification	SWL/unit	Utilisation Rate	Barrier Correction	Sub-total SWL
Dump Truck	2	BS Table C9 REF 24	104	65%	0	105
Concrete Lorry Mixer	1	BS Table C6 REF 33	96	100%	0	96
Excavator	1	BS Table C3 REF 35	106	65%	-5	99
Poker Vibrator	2	BS Table No. C6 REF 40	98	70%	0	99
Bulldozer	1	BS Table C9 Ref 2	104	100%	0	104
Roller	1	BS Table C8 REF 30	101	100%	0	101
Bar Bender	1	CNP 021	90	100%	-10	80
Air Compressor	1	CNP 002	102	100%	-10	92
Total SWL						110

B.10 Construction of Pumping Station PS1A		(WorkSite ID = 216)				(3/7/12 - 30/6/13)
PME	Unit	TM Identification	SWL/unit	Utilisation Rate	Barrier Correction	Sub-total SWL
Crane	1	BS Table C7 REF 101	94	65%	0	92
Concrete Pump	2	BS Table C6 REF 36	106	100%	-10	99
Concrete Lorry Mixer	4	BS Table C6 REF 33	96	100%	0	102
Poker Vibrator	2	BS Table No. C6 REF 40	98	70%	0	99
Bar Bender	1	CNP 021	90	100%	-10	80
Air Compressor	2	CNP 002	102	100%	-10	95
Total SWL						106

B.10b Rising mains (PS1A)		(WorkSite ID = 217)				(2/7/13 - 31/12/15)
PME	Unit	TM Identification	SWL/unit	Utilisation Rate	Barrier Correction	Sub-total SWL
Crane	1	BS Table C7 REF 101	94	65%	0	92
Breaker, excavator mounted	1	BS Table C8 REF 13	110	80%	-5	104
Excavator	1	BS Table C3 REF 35	106	65%	-5	99
Dump Truck	2	BS Table C9 REF 24	104	65%	0	105
Concrete Lorry Mixer	1	BS Table C6 REF 33	96	100%	0	96
Poker Vibrator	2	BS Table No. C6 REF 40	98	70%	0	99
Compactor, vibratory	1	CNP 050	105	70%	0	103
Air compressor	1	CNP 002	102	100%	-10	92
Total SWL						110

**Project: KTD Construction Noise (Package B)**

**Title: Calculation Sound Power Level**

Scenario:

Mitigated ▼

B.11 Drainage, Sewerage & Watermain		(WorkSite ID = 218 - 219)				(30/6/09 - 4/1/12)	
PME	Unit	TM Identification	SWL/unit	Utilisation Rate	Barrier Correction	Sub-total SWL	
Crane	1	BS Table C7 REF 101	94	65%	0	92	
Breaker, excavator mounted	1	BS Table C8 REF 13	110	80%	-5	104	
Excavator	1	BS Table C3 REF 35	106	65%	-5	99	
Dump Truck	2	BS Table C9 REF 24	104	65%	0	105	
Concrete Lorry Mixer	1	BS Table C6 REF 33	96	100%	0	96	
Poker Vibrator	2	BS Table No. C6 REF 40	98	70%	0	99	
Compactor, vibratory	1	CNP 050	105	70%	0	103	
Air compressor	1	CNP 002	102	100%	-10	92	
Total SWL						110	

B.12 Construction of Road D1		(WorkSite ID = 220)				(27/6/13 - 31/12/15)	
PME	Unit	TM Identification	SWL/unit	Utilisation Rate	Barrier Correction	Sub-total SWL	
(Group 1 PME)							
Dump Truck	2	BS Table C9 REF 24	104	65%	0	105	
Excavator	2	BS Table C3 REF 35	106	65%	-5	102	
(Group 2 PME)							
Grader	2	BS Table C9 REF 8	111	50%	0	111	
Loader	2	BS Table C3 REF 59	105	50%	0	105	
(Group 3 PME)							
Vibratory Roller	1	BS Table C3 REF 116	106	80%	0	105	
Road Roller	1	BS Table C8 REF 27	104	80%	0	103	
Asphalt Paver	2	BS Table C8 REF 24	101	50%	-5	96	
Planer	2	CNP 184	111	65%	0	112	
Max. Total SWL						113	

B.13 Construction of Road D2 (part)		(WorkSite ID = 221)				(27/6/14 - 31/12/15)	
PME	Unit	TM Identification	SWL/unit	Utilisation Rate	Barrier Correction	Sub-total SWL	
(Group 1 PME)							
Dump Truck	2	BS Table C9 REF 24	104	65%	0	105	
Excavator	2	BS Table C3 REF 35	106	65%	-5	102	
(Group 2 PME)							
Grader	2	BS Table C9 REF 8	111	50%	0	111	
Loader	2	BS Table C3 REF 59	105	50%	0	105	
(Group 3 PME)							
Vibratory Roller	1	BS Table C3 REF 116	106	80%	0	105	
Road Roller	1	BS Table C8 REF 27	104	80%	0	103	
Asphalt Paver	2	BS Table C8 REF 24	101	50%	-5	96	
Planer	2	CNP 184	111	65%	0	112	
Max. Total SWL						113	

B.14 Construction of Road L1		(WorkSite ID = 222 - 223)				(3/7/12 - 31/12/15)	
PME	Unit	TM Identification	SWL/unit	Utilisation Rate	Barrier Correction	Sub-total SWL	
(Group 1 PME)							
Dump Truck	2	BS Table C9 REF 24	104	65%	0	105	
Excavator	2	BS Table C3 REF 35	106	65%	-5	102	
(Group 2 PME)							
Grader	2	BS Table C9 REF 8	111	50%	0	111	
Loader	2	BS Table C3 REF 59	105	50%	0	105	
(Group 3 PME)							
Vibratory Roller	1	BS Table C3 REF 116	106	80%	0	105	
Road Roller	1	BS Table C8 REF 27	104	80%	0	103	
Asphalt Paver	2	BS Table C8 REF 24	101	50%	-5	96	
Planer	2	CNP 184	111	65%	0	112	
Max. Total SWL						113	

B.15 Construction of Road L2 & L11 (part)		(WorkSite ID = 224 - 226)				(27/6/14 - 31/12/15)	
PME	Unit	TM Identification	SWL/unit	Utilisation Rate	Barrier Correction	Sub-total SWL	
(Group 1 PME)							
Dump Truck	2	BS Table C9 REF 24	104	65%	0	105	
Excavator	2	BS Table C3 REF 35	106	65%	-5	102	
(Group 2 PME)							
Grader	2	BS Table C9 REF 8	111	50%	0	111	
Loader	2	BS Table C3 REF 59	105	50%	0	105	
(Group 3 PME)							
Vibratory Roller	1	BS Table C3 REF 116	106	80%	0	105	
Road Roller	1	BS Table C8 REF 27	104	80%	0	103	
Asphalt Paver	2	BS Table C8 REF 24	101	50%	-5	96	
Planer	2	CNP 184	111	65%	0	112	
Max. Total SWL						113	

Project: KTD Construction Noise (Package B)

Title: Calculation Sound Power Level

Scenario:

Mitigated

B. 16 Construction of Road L4 (Part) & L5 (WorkSite ID = 227) (27/6/14 - 31/12/15)						
PME	Unit	TM Identification	SWL/unit	Utilisation Rate	Barrier Correction	Sub-total SWL
(Group 1 PME)						
Dump Truck	2	BS Table C9 REF 24	104	65%	0	105
Excavator	2	BS Table C3 REF 35	106	65%	-5	102
(Group 2 PME)						
Grader	2	BS Table C9 REF 8	111	50%	0	111
Loader	2	BS Table C3 REF 59	105	50%	0	105
(Group 3 PME)						
Vibratory Roller	1	BS Table C3 REF 116	106	80%	0	105
Road Roller	1	BS Table C8 REF 27	104	80%	0	103
Asphalt Paver	2	BS Table C8 REF 24	101	50%	-5	96
Planer	2	CNP 184	111	65%	0	112
Max. Total SWL						113
B. 17 Construction of Slip Road S7 & S8 of CKR/T2 Interchange (WorkSite ID = 228) (27/6/14 - 31/12/15)						
PME	Unit	TM Identification	SWL/unit	Utilisation Rate	Barrier Correction	Sub-total SWL
(Group 1 PME)						
Dump Truck	2	BS Table C9 REF 24	104	65%	0	105
Excavator	2	BS Table C3 REF 35	106	65%	-5	102
(Group 2 PME)						
Grader	2	BS Table C9 REF 8	111	50%	0	111
Loader	2	BS Table C3 REF 59	105	50%	0	105
(Group 3 PME)						
Vibratory Roller	1	BS Table C3 REF 116	106	80%	0	105
Road Roller	1	BS Table C8 REF 27	104	80%	0	103
Asphalt Paver	2	BS Table C8 REF 24	101	50%	-5	96
Planer	2	CNP 184	111	65%	0	112
Max. Total SWL						113
B. 18 Construction of Footbridge at Rhythm Garden (LW-04) (3/7/12 - 31/12/14)						
B. 18a Substructure works (LW-04) (WorkSite ID = 229 - 230)						
PME	Unit	TM Identification	SWL/unit	Utilisation Rate	Barrier Correction	Sub-total SWL
Piling Rig	2	BS Table C4 REF 44	109	65%	0	110
Generator	2	CNP 103	95	100%	-10	88
Water Pump	2	CNP 281	88	100%	-10	81
Crane	2	BS Table C7 REF 101	94	65%	0	95
Concrete Pump	2	BS Table C6 REF 36	106	100%	-10	99
Concrete Lorry Mixer	2	BS Table C6 REF 33	96	100%	0	99
Poker Vibrator	2	BS Table No. C6 REF 40	98	70%	0	99
Bar Bender	2	CNP 021	90	100%	-10	83
Air Compressor	2	CNP 002	102	100%	-10	95
Total SWL						111
B. 18b Superstructure works (LW-04) (WorkSite ID = 231 - 232) (1/1/15-31/12/15)						
PME	Unit	TM Identification	SWL/unit	Utilisation Rate	Barrier Correction	Sub-total SWL
Crane	2	BS Table C7 REF 101	94	65%	0	95
Concrete Pump	2	BS Table C6 REF 36	106	100%	-10	99
Concrete Lorry Mixer	2	BS Table C6 REF 33	96	100%	0	99
Poker Vibrator	2	BS Table No. C6 REF 40	98	70%	0	99
Bar Bender	2	CNP 021	90	100%	-10	83
Air Compressor	2	CNP 002	102	100%	-10	95
Total SWL						105
B. 19 Construction of Subway SB-02 (WorkSite ID = 233 - 234) (3/7/12 - 31/12/15)						
PME	Unit	TM Identification	SWL/unit	Utilisation Rate	Barrier Correction	Sub-total SWL
Dump Truck	1	BS Table C9 REF 24	104	65%	0	102
Concrete Lorry Mixer	1	BS Table C6 REF 33	96	100%	0	96
Excavator	1	BS Table C3 REF 35	106	65%	-5	99
Poker Vibrator	2	BS Table No. C6 REF 40	98	70%	0	99
Bulldozer	1	BS Table C9 Ref 2	104	100%	0	104
Roller	1	BS Table C8 REF 30	101	100%	0	101
Bar Bender	2	CNP 021	90	100%	-10	83
Air Compressor	2	CNP 002	102	100%	-10	95
Total SWL						109



**Project: KTD Construction Noise (Package B)**

**Title: Calculation Sound Power Level**

**Scenario:**

Mitigated

**B.20 Construction of Box Culvert (5m x 2.5m)** (WorkSite ID = 235 - 237) (3/7/12 - 31/12/14)

PME	Unit	TM Identification	SWL/unit	Utilisation Rate	Barrier Correction	Sub-total SWL
Dump Truck	2	BS Table C9 REF 24	104	65%	0	105
Concrete Lorry Mixer	1	BS Table C6 REF 33	96	100%	0	96
Excavator	1	BS Table C3 REF 35	106	65%	-5	99
Poker Vibrator	2	BS Table No. C6 REF 40	98	70%	0	99
Bulldozer	1	BS Table C9 Ref 2	104	100%	0	104
Roller	1	BS Table C8 REF 30	101	100%	0	101
Bar Bender	1	CNP 021	90	100%	-10	80
Air Compressor	1	CNP 002	102	100%	-10	92
<b>Total SWL</b>						<b>110</b>

**B.21 Drainage, Sewerage & Watermain** (WorkSite ID = 238 - 239) (3/7/12 - 1/8/14)

PME	Unit	TM Identification	SWL/unit	Utilisation Rate	Barrier Correction	Sub-total SWL
Crane	1	BS Table C7 REF 101	94	65%	0	92
Breaker, excavator mounted	1	BS Table C6 REF 13	110	80%	-5	104
Excavator	1	BS Table C3 REF 35	106	65%	-5	99
Dump Truck	2	BS Table C9 REF 24	104	65%	0	105
Concrete Lorry Mixer	1	BS Table C6 REF 33	96	100%	0	96
Poker Vibrator	2	BS Table No. C6 REF 40	98	70%	0	99
Compactor, vibratory	1	CNP 050	105	70%	0	103
Air compressor	1	CNP 002	102	100%	-10	92
<b>Total SWL</b>						<b>110</b>

**B.22 Upgrading of Pumping Station PS1** (WorkSite ID = 240) (4/7/12 - 1/1/16)

PME	Unit	TM Identification	SWL/unit	Utilisation Rate	Barrier Correction	Sub-total SWL
Crane	1	BS Table C7 REF 101	94	65%	0	92
Concrete Pump	2	BS Table C6 REF 36	106	100%	-10	99
Concrete Lorry Mixer	4	BS Table C6 REF 33	96	100%	0	102
Poker Vibrator	2	BS Table No. C6 REF 40	98	70%	0	99
Bar Bender	1	CNP 021	90	100%	-10	80
Air Compressor	2	CNP 002	102	100%	-10	95
<b>Total SWL</b>						<b>106</b>

**B.23 Construct Footbridge (FB-01)** (WorkSite ID = 241)

**B.23a Construction Bridge Foundation** (1/7/09 - 30/9/11)

PME	Unit	TM Identification	SWL/unit	Utilisation Rate	Barrier Correction	Sub-total SWL
Piling Rig	2	BS Table C4 REF 44	109	65%	0	110
Generator	2	CNP 103	95	100%	-10	88
Water Pump	2	CNP 281	88	100%	-10	81
Crane	2	BS Table C7 REF 101	94	65%	0	95
Concrete Pump	2	BS Table C6 REF 36	106	100%	-10	99
Concrete Lorry Mixer	2	BS Table C6 REF 33	96	100%	0	99
Poker Vibrator	2	BS Table No. C6 REF 40	98	70%	0	99
Bar Bender	2	CNP 021	90	100%	-10	83
Air Compressor	4	CNP 002	102	100%	-10	98
<b>Total SWL</b>						<b>111</b>

**B.23b Tower/ Bridge Deck** (1/10/11 - 1/10/12)

PME	Unit	TM Identification	SWL/unit	Utilisation Rate	Barrier Correction	Sub-total SWL
Crane	2	BS Table C7 REF 101	94	65%	0	95
Concrete Pump	2	BS Table C6 REF 36	106	100%	-10	99
Concrete Lorry Mixer	2	BS Table C6 REF 33	96	100%	0	99
Poker Vibrator	2	BS Table No. C6 REF 40	98	70%	0	99
Bar Bender	2	CNP 021	90	100%	-10	83
Air Compressor	4	CNP 002	102	100%	-10	98
<b>Total SWL</b>						<b>105</b>

**Project: KTD Construction Noise (Package C)**

**Title: Calculation Sound Power Level**

**Scenario:**

Mitigated 

**Package C - Kai Tak Approach Channel improvement works**

C.1 Bio-remediation treatment of sediment at Kai Tak Approach Channel				(WorkSite ID = 301)	(2/9/10 - 30/9/14)	
PME	Unit	TM Identification	SWL/unit	Utilisation Rate	Barrier Correction	Sub-total SWL
Grab Dredger	2	CNP 063	112	100%	0	115
Tug Boat	2	CNP 221	110	100%	0	113
Barges	4	CNP 061	104	100%	0	110
Crane	2	BS Table C7 REF 101	94	65%	0	95
<b>Total SWL</b>						<b>118</b>

**C.2 Improvement work/sediment treatment for Kwun Tong Typhoon Shelter**

				(WorkSite ID = 302)	(2/9/10 - 30/9/14)	
PME	Unit	TM Identification	SWL/unit	Utilisation Rate	Barrier Correction	Sub-total SWL
Grab Dredger	2	CNP 063	112	100%	0	115
Tug Boat	2	CNP 221	110	100%	0	113
Barges	4	CNP 061	104	100%	0	110
Crane	2	BS Table C7 REF 101	94	65%	0	95
<b>Total SWL</b>						<b>118</b>

**Project: KTD Construction Noise (Package D)**

**Title: Calculation Sound Power Level**

Scenario:

Mitigated ▼

**Package D - Kai Tak Nullah modification works**

**D.1 Rebuild Kai Tak Nullah (Section 1)**

(WorkSite ID = 401)

(2/9/10 - 31/8/11)

PME	Unit	TM Identification	SWL/unit	Utilisation Rate	Barrier Correction	Sub-total SWL
Dump Truck	4	BS Table C9 REF 24	104	65%	0	108
Concrete Lorry Mixer	2	BS Table C6 REF 33	96	100%	0	99
Excavator	2	BS Table C3 REF 35	106	65%	-5	102
Poker Vibrator	4	BS Table No. C6 REF 40	98	70%	0	102
Bulldozer	2	BS Table C9 Ref 2	104	100%	0	107
Roller	2	BS Table C8 REF 30	101	100%	0	104
Bar Bender	2	CNP 021	90	100%	-10	83
Air Compressor	2	CNP 002	102	100%	-10	95
<b>Total SWL</b>						<b>113</b>

**D.1 Rebuild Kai Tak Nullah (Section 2)**

(WorkSite ID = 402)

(1/9/11 - 31/8/12)

PME	Unit	TM Identification	SWL/unit	Utilisation Rate	Barrier Correction	Sub-total SWL
Dump Truck	4	BS Table C9 REF 24	104	65%	0	108
Concrete Lorry Mixer	2	BS Table C6 REF 33	96	100%	0	99
Excavator	2	BS Table C3 REF 35	106	65%	-5	102
Poker Vibrator	4	BS Table No. C6 REF 40	98	70%	0	102
Bulldozer	2	BS Table C9 Ref 2	104	100%	0	107
Roller	2	BS Table C8 REF 30	101	100%	0	104
Bar Bender	2	CNP 021	90	100%	-10	83
Air Compressor	2	CNP 002	102	100%	-10	95
<b>Total SWL</b>						<b>113</b>

**D.1 Rebuild Kai Tak Nullah (Section 3)**

(WorkSite ID = 403)

(1/9/12 - 31/8/13)

PME	Unit	TM Identification	SWL/unit	Utilisation Rate	Barrier Correction	Sub-total SWL
Dump Truck	4	BS Table C9 REF 24	104	65%	0	108
Concrete Lorry Mixer	2	BS Table C6 REF 33	96	100%	0	99
Excavator	2	BS Table C3 REF 35	106	65%	-5	102
Poker Vibrator	4	BS Table No. C6 REF 40	98	70%	0	102
Bulldozer	2	BS Table C9 Ref 2	104	100%	0	107
Roller	2	BS Table C8 REF 30	101	100%	0	104
Bar Bender	2	CNP 021	90	100%	-10	83
Air Compressor	2	CNP 002	102	100%	-10	95
<b>Total SWL</b>						<b>113</b>

**D.1 Rebuild Kai Tak Nullah (Section 4)**

(WorkSite ID = 404)

(1/9/13 - 30/9/14)

PME	Unit	TM Identification	SWL/unit	Utilisation Rate	Barrier Correction	Sub-total SWL
Dump Truck	4	BS Table C9 REF 24	104	65%	0	108
Concrete Lorry Mixer	2	BS Table C6 REF 33	96	100%	0	99
Excavator	2	BS Table C3 REF 35	106	65%	-5	102
Poker Vibrator	4	BS Table No. C6 REF 40	98	70%	0	102
Bulldozer	2	BS Table C9 Ref 2	104	100%	0	107
Roller	2	BS Table C8 REF 30	101	100%	0	104
Bar Bender	2	CNP 021	90	100%	-10	83
Air Compressor	2	CNP 002	102	100%	-10	95
<b>Total SWL</b>						<b>113</b>

**D.2 Construction of DSD's Desilting Compounds at Kai Tak Nullah**

(WorkSite ID = 405)

(1/9/13 - 30/9/14)

PME	Unit	TM Identification	SWL/unit	Utilisation Rate	Barrier Correction	Sub-total SWL
Crane	2	BS Table C7 REF 101	94	65%	0	95
Concrete Pump	4	BS Table C6 REF 36	106	100%	-10	102
Concrete Lorry Mixer	8	BS Table C6 REF 33	96	100%	0	105
Poker Vibrator	4	BS Table No. C6 REF 40	98	70%	0	102
Bar Bender	2	CNP 021	90	100%	-10	83
Air Compressor	4	CNP 002	102	100%	-10	98
<b>Total SWL</b>						<b>109</b>

**Project: KTD Construction Noise (Package E)**

**Title: Calculation Sound Power Level**

**Scenario:**

Mitigated ▼

**Package E - Infrastructure works at runway and Metro Park**

**E.1 600m Wide Opening in Runway**

**E.1a Demolition of Structure**

(WorkSite ID = 501)

(2/9/10 - 30/12/11)

PME	Unit	TM Identification	SWL/unit	Utilisation Rate	Barrier Correction	Sub-total SWL
Breaker	2	BS Table C8 REF 13	110	80%	-5	107
Excavator	2	BS Table C3 REF 35	106	65%	-5	102
Bulldozer	2	BS Table C9 Ref 2	104	100%	0	107
Hand-held Breaker	6	CNP 024	108	80%	-5	110
Dump Truck	4	BS Table C9 REF 24	104	65%	0	108
Barges	2	CNP 061	104	100%	0	107
Crane	1	BS Table C7 REF 101	94	65%	0	92
Grab Dredger	2	CNP 063	112	100%	0	115
Tug Boat	2	CNP 221	110	100%	0	113
Barges	4	CNP 061	104	100%	0	110
<b>Total SWL</b>						<b>120</b>

**E.1b Construction of piled deck to cover up the gap for Metro Park**

(WorkSite ID = 502)

(2/9/11 - 30/9/14)

PME	Unit	TM Identification	SWL/unit	Utilisation Rate	Barrier Correction	Sub-total SWL
Pilling Rig	1	BS Table C4 REF 44	109	65%	0	107
Generator	1	CNP 103	95	100%	-10	85
Water Pump	1	CNP 281	88	100%	-10	78
Crane	1	BS Table C7 REF 101	94	65%	0	92
Concrete Pump	2	BS Table C6 REF 36	106	100%	-10	99
Concrete Lorry Mixer	4	BS Table C6 REF 33	96	100%	0	102
Barges	1	CNP 061	104	100%	0	104
Poker Vibrator	2	BS Table No. C6 REF 40	98	70%	0	99
Bar Bender	1	CNP 021	90	100%	-10	80
Air Compressor	2	CNP 002	102	100%	-10	95
<b>Total SWL</b>						<b>111</b>

**E.2 Construction of Road D3 (near at Metro Park)**

(WorkSite ID = 503 - 504)

(1/1/14 - 31/12/15)

PME	Unit	TM Identification	SWL/unit	Utilisation Rate	Barrier Correction	Sub-total SWL
Dump Truck	2	BS Table C9 REF 24	104	65%	0	105
Excavator	2	BS Table C3 REF 35	106	65%	-5	102
Grader	2	BS Table C9 REF 8	111	50%	0	111
Loader	2	BS Table C3 REF 59	105	50%	0	105
Vibratory Roller	1	BS Table C3 REF 116	106	80%	0	105
Road Roller	1	BS Table C8 REF 27	104	80%	0	103
Asphalt Paver	2	BS Table C8 REF 24	101	50%	-5	96
Planer	2	CNP 184	111	65%	0	112
<b>Total SWL</b>						<b>116</b>

**E.3 Construction of Road L12 & L13**

(WorkSite ID = 505)

(1/1/14 - 31/12/15)

PME	Unit	TM Identification	SWL/unit	Utilisation Rate	Barrier Correction	Sub-total SWL
Dump Truck	2	BS Table C9 REF 24	104	65%	0	105
Excavator	2	BS Table C3 REF 35	106	65%	-5	102
Grader	2	BS Table C9 REF 8	111	50%	0	111
Loader	2	BS Table C3 REF 59	105	50%	0	105
Vibratory Roller	1	BS Table C3 REF 116	106	80%	0	105
Road Roller	1	BS Table C8 REF 27	104	80%	0	103
Asphalt Paver	2	BS Table C8 REF 24	101	50%	-5	96
Planer	2	CNP 184	111	65%	0	112
<b>Total SWL</b>						<b>116</b>

**E.4 Construct Footbridge "A" (FB-03)**

**E.4a Construction Bridge Foundation**

(WorkSite ID = 506 - 507)

(15/6/12 - 31/12/14)

PME	Unit	TM Identification	SWL/unit	Utilisation Rate	Barrier Correction	Sub-total SWL
Pilling Rig	2	BS Table C4 REF 44	109	65%	0	110
Generator	2	CNP 103	95	100%	-10	88
Water Pump	2	CNP 281	88	100%	-10	81
Crane	2	BS Table C7 REF 101	94	65%	0	95
Concrete Pump	4	BS Table C6 REF 36	106	100%	-10	102
Concrete Lorry Mixer	8	BS Table C6 REF 33	96	100%	0	105
Poker Vibrator	4	BS Table No. C6 REF 40	98	70%	0	102
Bar Bender	2	CNP 021	90	100%	-10	83
Air Compressor	4	CNP 002	102	100%	-10	98
<b>Total SWL</b>						<b>113</b>

**Project: KTD Construction Noise (Package E)**

**Title: Calculation Sound Power Level**

Scenario:

Mitigated

E.4b Tower/ Bridge Deck / Cable Stays Construction

(WorkSite ID = 508 - 509)

(1/1/15 - 31/12/15)

PME	Unit	TM Identification	SWL/unit	Utilisation Rate	Barrier Correction	Sub-total SWL
Crane	2	BS Table C7 REF 101	94	65%	0	95
Concrete Pump	4	BS Table C6 REF 36	106	100%	-10	102
Concrete Lorry Mixer	8	BS Table C6 REF 33	96	100%	0	105
Poker Vibrator	4	BS Table No. C6 REF 40	98	70%	0	102
Bar Bender	2	CNP 021	90	100%	-10	83
Air Compressor	4	CNP 002	102	100%	-10	98
<b>Total SWL</b>						<b>109</b>

E.5 Construct Footbridge "C" (FB-04)

E.5a Construction Bridge Foundation

(WorkSite ID = 510 - 511)

(15/6/12 - 31/12/14)

PME	Unit	TM Identification	SWL/unit	Utilisation Rate	Barrier Correction	Sub-total SWL
Piling Rig	2	BS Table C4 REF 44	109	65%	0	110
Generator	2	CNP 103	95	100%	-10	88
Water Pump	2	CNP 281	88	100%	-10	81
Crane	2	BS Table C7 REF 101	94	65%	0	95
Concrete Pump	4	BS Table C6 REF 36	106	100%	-10	102
Concrete Lorry Mixer	8	BS Table C6 REF 33	96	100%	0	105
Poker Vibrator	4	BS Table No. C6 REF 40	98	70%	0	102
Bar Bender	2	CNP 021	90	100%	-10	83
Air Compressor	4	CNP 002	102	100%	-10	98
<b>Total SWL</b>						<b>113</b>

E.5b Tower/ Bridge Deck / Cable Stays Construction

(WorkSite ID = 512 - 513)

(1/1/15 - 31/12/15)

PME	Unit	TM Identification	SWL/unit	Utilisation Rate	Barrier Correction	Sub-total SWL
Crane	2	BS Table C7 REF 101	94	65%	0	95
Concrete Pump	4	BS Table C6 REF 36	106	100%	-10	102
Concrete Lorry Mixer	8	BS Table C6 REF 33	96	100%	0	105
Poker Vibrator	4	BS Table No. C6 REF 40	98	70%	0	102
Bar Bender	2	CNP 021	90	100%	-10	83
Air Compressor	4	CNP 002	102	100%	-10	98
<b>Total SWL</b>						<b>109</b>

E.6 Drainage, Sewerage & Watermain

(WorkSite ID = 514 - 516)

(15/6/12 - 31/12/13)

PME	Unit	TM Identification	SWL/unit	Utilisation Rate	Barrier Correction	Sub-total SWL
Crane	1	BS Table C7 REF 101	94	65%	0	92
Breaker, excavator mounted	1	BS Table C8 REF 13	110	80%	-5	104
Excavator	1	BS Table C3 REF 35	106	65%	-5	99
Dump Truck	2	BS Table C9 REF 24	104	65%	0	105
Concrete Lorry Mixer	1	BS Table C6 REF 33	96	100%	0	96
Poker Vibrator	2	BS Table No. C6 REF 40	98	70%	0	99
Compactor, vibratory	1	CNP 050	105	70%	0	103
Air compressor	1	CNP 002	102	100%	-10	92
<b>Total SWL</b>						<b>110</b>

E.7 Conversion of TD3 into D3 with Street Lighting/ Landscaping Works(Include Road L14)

(WorkSite ID = 517 - 522)

(15/6/12 - 31/12/15)

PME	Unit	TM Identification	SWL/unit	Utilisation Rate	Barrier Correction	Sub-total SWL
Dump Truck	2	BS Table C9 REF 24	104	65%	0	105
Excavator	2	BS Table C3 REF 35	106	65%	-5	102
Grader	2	BS Table C9 REF 8	111	50%	0	111
Loader	2	BS Table C3 REF 59	105	50%	0	105
Vibratory Roller	1	BS Table C3 REF 116	106	80%	0	105
Road Roller	1	BS Table C8 REF 27	104	80%	0	103
Asphalt Paver	2	BS Table C8 REF 24	101	50%	-5	96
Planer	2	CNP 184	111	65%	0	112
<b>Total SWL</b>						<b>116</b>

E.8 Conversion of TD4 into D4

(WorkSite ID = 523)

(31/12/14-31/12/15)

PME	Unit	TM Identification	SWL/unit	Utilisation Rate	Barrier Correction	Sub-total SWL
Dump Truck	2	BS Table C9 REF 24	104	65%	0	105
Excavator	2	BS Table C3 REF 35	106	65%	-5	102
Grader	2	BS Table C9 REF 8	111	50%	0	111
Loader	2	BS Table C3 REF 59	105	50%	0	105
Vibratory Roller	1	BS Table C3 REF 116	106	80%	0	105
Road Roller	1	BS Table C8 REF 27	104	80%	0	103
Asphalt Paver	2	BS Table C8 REF 24	101	50%	-5	96
Planer	2	CNP 184	111	65%	0	112
<b>Total SWL</b>						<b>116</b>

**Project: KTD Construction Noise (Package E)**

**Title: Calculation Sound Power Level**

**Scenario:**

Mitigated ▼

E.9 Elevated Landscape Deck above Road D3

E.9a Substructure works

(WorkSite ID = 524 - 528)

(15/6/12-31/12/15)

PME	Unit	TM Identification	SWL/unit	Utilisation Rate	Barrier Correction	Sub-total SWL
Pilling Rig	2	BS Table C4 REF 44	109	65%	0	110
Generator	2	CNP 103	95	100%	-10	88
Water Pump	2	CNP 281	88	100%	-10	81
Crane	2	BS Table C7 REF 101	94	65%	0	95
Concrete Pump	2	BS Table C6 REF 36	106	100%	-10	99
Concrete Lorry Mixer	4	BS Table C6 REF 33	96	100%	0	102
Poker Vibrator	2	BS Table No. C6 REF 40	98	70%	0	99
Bar Bender	2	CNP 021	90	100%	-10	83
Air Compressor	4	CNP 002	102	100%	-10	98
<b>Total SWL</b>						<b>112</b>

E.9b Superstructure works

(WorkSite ID = 529 - 533)

(15/6/12-31/12/15)

PME	Unit	TM Identification	SWL/unit	Utilisation Rate	Barrier Correction	Sub-total SWL
Crane	2	BS Table C7 REF 101	94	65%	0	95
Concrete Pump	2	BS Table C6 REF 36	106	100%	-10	99
Concrete Lorry Mixer	4	BS Table C6 REF 33	96	100%	0	102
Poker Vibrator	2	BS Table No. C6 REF 40	98	70%	0	99
Bar Bender	2	CNP 021	90	100%	-10	83
Air Compressor	4	CNP 002	102	100%	-10	98
<b>Total SWL</b>						<b>106</b>

**Project: KTD Construction Noise (Package F)**

**Title: Calculation Sound Power Level**

**Scenario:**

Mitigated ▼

**Package F - Infrastructure works at North Apron, Phase 2**

**F.1 Infrastructure works to serve Key Development before 2016 (Phase 1)**

**F.1 Construction of Road D1, L7, L8, L9 & L16 (WorkSite ID = 601)**

(2/7/14 - 31/12/15)

PME	Unit	TM Identification	SWL/unit	Utilisation Rate	Barrier Correction	Sub-total SWL
(Group 1 PME)						
Dump Truck	2	BS Table C9 REF 24	104	65%	0	105
Excavator	2	BS Table C3 REF 35	106	65%	-5	102
(Group 2 PME)						
Grader	2	BS Table C9 REF 8	111	50%	0	111
Loader	2	BS Table C3 REF 59	105	50%	0	105
(Group 3 PME)						
Vibratory Roller	1	BS Table C3 REF 116	106	80%	0	105
Road Roller	1	BS Table C8 REF 27	104	80%	0	103
Asphalt Paver	2	BS Table C8 REF 24	101	50%	-5	96
Planer	2	CNP 184	111	65%	0	112
<b>Max. Total SWL</b>						<b>113</b>

**F.2 Construction of Landscape Walkway LW-02**

**F.2a Substructure works**

(WorkSite ID = 602 - 603)

(3/7/12 - 31/12/14)

PME	Unit	TM Identification	SWL/unit	Utilisation Rate	Barrier Correction	Sub-total SWL
Piling Rig	2	BS Table C4 REF 44	109	65%	0	110
Generator	2	CNP 103	95	100%	-10	88
Water Pump	2	CNP 281	88	100%	-10	81
Crane	2	BS Table C7 REF 101	94	65%	0	95
Concrete Pump	2	BS Table C6 REF 36	106	100%	-10	99
Concrete Lorry Mixer	4	BS Table C6 REF 33	96	100%	0	102
Poker Vibrator	2	BS Table No. C6 REF 40	98	70%	0	99
Bar Bender	2	CNP 021	90	100%	-10	83
Air Compressor	4	CNP 002	102	100%	-10	98
<b>Total SWL</b>						<b>112</b>

**F.2b Superstructure works**

(WorkSite ID = 604 - 605)

(1/1/15 - 31/12/15)

PME	Unit	TM Identification	SWL/unit	Utilisation Rate	Barrier Correction	Sub-total SWL
Crane	2	BS Table C7 REF 101	94	65%	0	95
Concrete Pump	2	BS Table C6 REF 36	106	100%	-10	99
Concrete Lorry Mixer	4	BS Table C6 REF 33	96	100%	0	102
Poker Vibrator	2	BS Table No. C6 REF 40	98	70%	0	99
Bar Bender	2	CNP 021	90	100%	-10	83
Air Compressor	4	CNP 002	102	100%	-10	98
<b>Total SWL</b>						<b>106</b>

**F.3 Construction of Landscape Walkway LW-03**

**F.3a Substructure works**

(WorkSite ID = 606)

(3/7/12 - 31/12/14)

PME	Unit	TM Identification	SWL/unit	Utilisation Rate	Barrier Correction	Sub-total SWL
Piling Rig	2	BS Table C4 REF 44	109	65%	0	110
Generator	2	CNP 103	95	100%	-10	88
Water Pump	2	CNP 281	88	100%	-10	81
Crane	2	BS Table C7 REF 101	94	65%	0	95
Concrete Pump	2	BS Table C6 REF 36	106	100%	-10	99
Concrete Lorry Mixer	4	BS Table C6 REF 33	96	100%	0	102
Poker Vibrator	2	BS Table No. C6 REF 40	98	70%	0	99
Bar Bender	2	CNP 021	90	100%	-10	83
Air Compressor	4	CNP 002	102	100%	-10	98
<b>Total SWL</b>						<b>112</b>

**F.3b Superstructure works**

(WorkSite ID = 607)

(1/1/15 - 31/12/15)

PME	Unit	TM Identification	SWL/unit	Utilisation Rate	Barrier Correction	Sub-total SWL
Crane	2	BS Table C7 REF 101	94	65%	0	95
Concrete Pump	2	BS Table C6 REF 36	106	100%	-10	99
Concrete Lorry Mixer	4	BS Table C6 REF 33	96	100%	0	102
Poker Vibrator	2	BS Table No. C6 REF 40	98	70%	0	99
Bar Bender	2	CNP 021	90	100%	-10	83
Air Compressor	4	CNP 002	102	100%	-10	98
<b>Total SWL</b>						<b>106</b>

**Project: KTD Construction Noise (Package F)**

**Title: Calculation Sound Power Level**

**Scenario:**

Mitigated

**F.4 Underground Shopping Street (SB-01)**

(WorkSite ID = 608 - 609)

(3/7/12 - 31/12/14)

**F.4a Worksite inside KTD**

PME	Unit	TM Identification	SWL/unit	Utilisation Rate	Barrier Correction	Sub-total SWL
Dump Truck	4	BS Table C9 REF 24	104	65%	0	108
Concrete Lorry Mixer	2	BS Table C6 REF 33	96	100%	0	99
Excavator	2	BS Table C3 REF 35	106	65%	-5	102
Poker Vibrator	4	BS Table No. C6 REF 40	98	70%	0	102
Bulldozer	2	BS Table C9 Ref 2	104	100%	0	107
Roller	2	BS Table C8 REF 30	101	100%	0	104
Bar Bender	2	CNP 021	90	100%	-10	83
Air Compressor	2	CNP 002	102	100%	-10	95
<b>Total SWL</b>						<b>113</b>

**F.4b Worksite outside KTD**

(2/1/15 - 31/12/15)

PME	Unit	TM Identification	SWL/unit	Utilisation Rate	Barrier Correction	Sub-total SWL
<b>Group 1</b>						
Lorry	1	BS Table C9 REF 19	102	65%	0	100
Bar Bender	1	CNP 021	90	100%	-10	80
Air Compressor	1	CNP 002	102	100%	-10	92
Mini Excavator	1	BS Table C3 REF 108	97	100%	0	97
<b>Total SWL</b>						<b>102</b>
<b>Group 2</b>						
Concrete Lorry Mixer	1	BS Table C6 REF 33	96	100%	0	96
Poker Vibrator	1	BS Table No. C6 REF 40	98	70%	0	96
<b>Total SWL</b>						<b>99</b>
<b>Group 3</b>						
Roller	1	BS Table C8 REF 30	101	100%	0	101
<b>Total SWL</b>						<b>101</b>
<b>Max. SWL</b>						<b>102</b>

**F.5 Enhanced Existing Subway (SB-04)**

(WorkSite ID = 610 - 611)

(3/7/12 - 31/12/15)

PME	Unit	TM Identification	SWL/unit	Utilisation Rate	Barrier Correction	Sub-total SWL
<b>Group 1</b>						
Lorry	1	BS Table C9 REF 19	102	65%	0	100
Bulldozer	1	BS Table C9 Ref 2	104	100%	0	104
Mini Excavator	1	BS Table C3 REF 108	97	100%	0	97
Bar Bender	2	CNP 021	90	100%	-10	83
Air Compressor	2	CNP 002	102	100%	-10	95
<b>Total SWL</b>						<b>106</b>
<b>Group 2</b>						
Concrete Lorry Mixer	1	BS Table C6 REF 33	96	100%	0	96
Poker Vibrator	2	BS Table No. C6 REF 40	98	70%	0	99
<b>Total SWL</b>						<b>101</b>
<b>Group 3</b>						
Roller	1	BS Table C8 REF 30	101	100%	0	101
<b>Total SWL</b>						<b>101</b>
<b>Max. SWL</b>						<b>106</b>

**F.6 Enhanced Existing Subway (SB-05)**

(WorkSite ID = 612 - 613)

(3/7/12 - 31/12/15)

PME	Unit	TM Identification	SWL/unit	Utilisation Rate	Barrier Correction	Sub-total SWL
Dump Truck	1	BS Table C9 REF 24	104	65%	0	102
Concrete Lorry Mixer	1	BS Table C6 REF 33	96	100%	0	96
Excavator	1	BS Table C3 REF 35	106	65%	-5	99
Poker Vibrator	2	BS Table No. C6 REF 40	98	70%	0	99
Bulldozer	1	BS Table C9 Ref 2	104	100%	0	104
Roller	1	BS Table C8 REF 30	101	100%	0	101
Bar Bender	2	CNP 021	90	100%	-10	83
Air Compressor	2	CNP 002	102	100%	-10	95
<b>Total SWL</b>						<b>109</b>



**Project: KTD Construction Noise (Package F)**

**Title: Calculation Sound Power Level**

Scenario:

Mitigated

F.7 Construction of Drainage Culvert (2.5x2.5m) (WorkSite ID = 614)						(3/7/12 - 31/12/14)
PME	Unit	TM Identification	SWL/unit	Utilisation Rate	Barrier Correction	Sub-total SWL
Dump Truck	4	BS Table C9 REF 24	104	65%	0	108
Concrete Lorry Mixer	2	BS Table C6 REF 33	96	100%	0	99
Excavator	2	BS Table C3 REF 35	106	65%	-5	102
Poker Vibrator	4	BS Table No. C6 REF 40	98	70%	0	102
Bulldozer	2	BS Table C9 Ref 2	104	100%	0	107
Roller	2	BS Table C8 REF 30	101	100%	0	104
Bar Bender	2	CNP 021	90	100%	-10	83
Air Compressor	2	CNP 002	102	100%	-10	95
Total SWL						113

F.8 Construction of Drainage Culvert (4x3m) (WorkSite ID = 615 - 618)						(3/7/12 - 31/12/14)
PME	Unit	TM Identification	SWL/unit	Utilisation Rate	Barrier Correction	Sub-total SWL
Dump Truck	4	BS Table C9 REF 24	104	65%	0	108
Concrete Lorry Mixer	2	BS Table C6 REF 33	96	100%	0	99
Excavator	2	BS Table C3 REF 35	106	65%	-5	102
Poker Vibrator	4	BS Table No. C6 REF 40	98	70%	0	102
Bulldozer	2	BS Table C9 Ref 2	104	100%	0	107
Roller	2	BS Table C8 REF 30	101	100%	0	104
Bar Bender	2	CNP 021	90	100%	-10	83
Air Compressor	2	CNP 002	102	100%	-10	95
Total SWL						113

F.9 Construction of Drainage Culvert (5x4m) (WorkSite ID = 619)						(3/7/12 - 31/12/14)
PME	Unit	TM Identification	SWL/unit	Utilisation Rate	Barrier Correction	Sub-total SWL
Dump Truck	4	BS Table C9 REF 24	104	65%	0	108
Concrete Lorry Mixer	2	BS Table C6 REF 33	96	100%	0	99
Excavator	2	BS Table C3 REF 35	106	65%	-5	102
Poker Vibrator	4	BS Table No. C6 REF 40	98	70%	0	102
Bulldozer	2	BS Table C9 Ref 2	104	100%	0	107
Roller	2	BS Table C8 REF 30	101	100%	0	104
Bar Bender	2	CNP 021	90	100%	-10	83
Air Compressor	2	CNP 002	102	100%	-10	95
Total SWL						113

F.10 Drainage, Sewerage & Watermain (WorkSite ID = 620)						(3/7/12 - 1/7/14)
PME	Unit	TM Identification	SWL/unit	Utilisation Rate	Barrier Correction	Sub-total SWL
Crane	1	BS Table C7 REF 101	94	65%	0	92
Breaker, excavator mounted	1	BS Table C8 REF 13	110	80%	-5	104
Excavator	1	BS Table C3 REF 35	106	65%	-5	99
Dump Truck	2	BS Table C9 REF 24	104	65%	0	105
Concrete Lorry Mixer	1	BS Table C6 REF 33	96	100%	0	96
Poker Vibrator	2	BS Table No. C6 REF 40	98	70%	0	99
Compactor, vibratory	1	CNP 050	105	70%	0	103
Air compressor	1	CNP 002	102	100%	-10	92
Total SWL						110

**2 Infrastructure Works to serve Key Development before 2016 (Phase 2)**

**F.11 Construction of Road D2, D3 & L6 and Sung Wong Toi Road Footpath**

(WorkSite ID = 621)						(2/1/15 - 31/12/16)
PME	Unit	TM Identification	SWL/unit	Utilisation Rate	Barrier Correction	Sub-total SWL
(Group 1 PME)						
Dump Truck	2	BS Table C9 REF 24	104	65%	0	105
Excavator	2	BS Table C3 REF 35	106	65%	-5	102
(Group 2 PME)						
Grader	2	BS Table C9 REF 8	111	50%	0	111
Loader	2	BS Table C3 REF 59	105	50%	0	105
(Group 3 PME)						
Vibratory Roller	1	BS Table C3 REF 116	106	80%	0	105
Road Roller	1	BS Table C8 REF 27	104	80%	0	103
Asphalt Paver	2	BS Table C8 REF 24	101	50%	-5	96
Planer	2	CNP 184	111	65%	0	112
Max. Total SWL						113

**Project: KTD Construction Noise (Package F)**

**Title: Calculation Sound Power Level**

**Scenario:**

Mitigated ▼

**F.12 Construction of Landscape Elevated Walkway (Road D2)**

**F.12a Substructure works**

(WorkSite ID = 622)

(2/1/15 - 31/12/16)

PME	Unit	TM Identification	SWL/unit	Utilisation Rate	Barrier Correction	Sub-total SWL
Pilling Rig	2	BS Table C4 REF 44	109	65%	0	110
Generator	2	CNP 103	95	100%	-10	88
Water Pump	2	CNP 281	88	100%	-10	81
Crane	2	BS Table C7 REF 101	94	65%	0	95
Concrete Pump	2	BS Table C6 REF 36	106	100%	-10	99
Concrete Lorry Mixer	4	BS Table C6 REF 33	96	100%	0	102
Poker Vibrator	2	BS Table No. C6 REF 40	98	70%	0	99
Bar Bender	2	CNP 021	90	100%	-10	83
Air Compressor	4	CNP 002	102	100%	-10	98
<b>Total SWL</b>						<b>112</b>

**F.12b Superstructure works**

(WorkSite ID = 623)

(2/1/15 - 31/12/16)

PME	Unit	TM Identification	SWL/unit	Utilisation Rate	Barrier Correction	Sub-total SWL
Crane	2	BS Table C7 REF 101	94	65%	0	95
Concrete Pump	2	BS Table C6 REF 36	106	100%	-10	99
Concrete Lorry Mixer	4	BS Table C6 REF 33	96	100%	0	102
Poker Vibrator	2	BS Table No. C6 REF 40	98	70%	0	99
Bar Bender	2	CNP 021	90	100%	-10	83
Air Compressor	4	CNP 002	102	100%	-10	98
<b>Total SWL</b>						<b>106</b>

**F.13 Construction of Local Road L17**

(WorkSite ID = 624)

(2/1/15 - 31/12/16)

PME	Unit	TM Identification	SWL/unit	Utilisation Rate	Barrier Correction	Sub-total SWL
(Group 1 PME)						
Dump Truck	1	BS Table C9 REF 24	104	65%	0	102
Excavator	1	BS Table C3 REF 35	106	65%	-5	99
(Group 2 PME)						
Grader	1	BS Table C9 REF 8	111	50%	0	108
Loader	1	BS Table C3 REF 59	105	50%	0	102
(Group 3 PME)						
Vibratory Roller	1	BS Table C3 REF 116	106	80%	0	105
Road Roller	1	BS Table C8 REF 27	104	80%	0	103
Asphalt Paver	1	BS Table C8 REF 24	101	50%	-5	93
Planer	1	CNP 184	111	65%	0	109
<b>Max. Total SWL</b>						<b>111</b>

**F.14 Construction of Local Road L19**

(WorkSite ID = 625 - 627)

(2/1/15 - 31/12/16)

PME	Unit	TM Identification	SWL/unit	Utilisation Rate	Barrier Correction	Sub-total SWL
(Group 1 PME)						
Dump Truck	1	BS Table C9 REF 24	104	65%	0	102
Excavator	2	BS Table C3 REF 35	106	65%	-5	102
(Group 2 PME)						
Grader	1	BS Table C9 REF 8	111	50%	0	108
Loader	1	BS Table C3 REF 59	105	50%	0	102
(Group 3 PME)						
Vibratory Roller	1	BS Table C3 REF 116	106	80%	0	105
Road Roller	1	BS Table C8 REF 27	104	80%	0	103
Asphalt Paver	2	BS Table C8 REF 24	101	50%	-5	96
Planer	1	CNP 184	111	65%	0	109
<b>Max. Total SWL</b>						<b>111</b>

**F.15 Construction of Landscape Walkway LW-05**

**F.15a Substructure works**

(WorkSite ID = 628)

(4/7/15 - 31/12/16)

PME	Unit	TM Identification	SWL/unit	Utilisation Rate	Barrier Correction	Sub-total SWL
Pilling Rig	2	BS Table C4 REF 44	109	65%	0	110
Generator	2	CNP 103	95	100%	-10	88
Water Pump	2	CNP 281	88	100%	-10	81
Crane	2	BS Table C7 REF 101	94	65%	0	95
Concrete Pump	2	BS Table C6 REF 36	106	100%	-10	99
Concrete Lorry Mixer	4	BS Table C6 REF 33	96	100%	0	102
Poker Vibrator	2	BS Table No. C6 REF 40	98	70%	0	99
Bar Bender	2	CNP 021	90	100%	-10	83
Air Compressor	4	CNP 002	102	100%	-10	98
<b>Total SWL</b>						<b>112</b>

Project: KTD Construction Noise (Package F)

Title: Calculation Sound Power Level

Scenario:

Mitigated ▼

(WorkSite ID = 629)							(4/7/15 - 31/12/16)
PME	Unit	TM Identification	SWL/unit	Utilisation Rate	Barrier Correction	Sub-total SWL	
Crane	2	BS Table C7 REF 101	94	65%	0	95	
Concrete Pump	2	BS Table C6 REF 36	106	100%	-10	99	
Concrete Lorry Mixer	4	BS Table C6 REF 33	96	100%	0	102	
Poker Vibrator	2	BS Table No. C6 REF 40	98	70%	0	99	
Bar Bender	2	CNP 021	90	100%	-10	83	
Air Compressor	4	CNP 002	102	100%	-10	98	
Total SWL						106	

(WorkSite ID = 630)							(2/1/14 - 31/12/16)
PME	Unit	TM Identification	SWL/unit	Utilisation Rate	Barrier Correction	Sub-total SWL	
Crane	1	BS Table C7 REF 101	94	65%	0	92	
Concrete Pump	2	BS Table C6 REF 36	106	100%	-10	99	
Concrete Lorry Mixer	4	BS Table C6 REF 33	96	100%	0	102	
Poker Vibrator	2	BS Table No. C6 REF 40	98	70%	0	99	
Bar Bender	1	CNP 021	90	100%	-10	80	
Air Compressor	2	CNP 002	102	100%	-10	95	
Total SWL						106	

(WorkSite ID = 631)							(2/1/14 - 31/12/16)
PME	Unit	TM Identification	SWL/unit	Utilisation Rate	Barrier Correction	Sub-total SWL	
Crane	1	BS Table C7 REF 101	94	65%	0	92	
Concrete Pump	2	BS Table C6 REF 36	106	100%	-10	99	
Concrete Lorry Mixer	4	BS Table C6 REF 33	96	100%	0	102	
Poker Vibrator	2	BS Table No. C6 REF 40	98	70%	0	99	
Bar Bender	1	CNP 021	90	100%	-10	80	
Air Compressor	2	CNP 002	102	100%	-10	95	
Total SWL						106	

(WorkSite ID = 632)							(2/1/14 - 31/12/15)
PME	Unit	TM Identification	SWL/unit	Utilisation Rate	Barrier Correction	Sub-total SWL	
Crane	1	BS Table C7 REF 101	94	65%	0	92	
Breaker, excavator mounted	1	BS Table C8 REF 13	110	80%	-5	104	
Excavator	1	BS Table C3 REF 35	106	65%	-5	99	
Dump Truck	2	BS Table C9 REF 24	104	65%	0	105	
Concrete Lorry Mixer	1	BS Table C6 REF 33	96	100%	0	96	
Poker Vibrator	2	BS Table No. C6 REF 40	98	70%	0	99	
Compactor, vibratory	1	CNP 050	105	70%	0	103	
Air compressor	1	CNP 002	102	100%	-10	92	
Total SWL						110	

(WorkSite ID = 633 - 634)							(3/7/12 - 31/12/14)
PME	Unit	TM Identification	SWL/unit	Utilisation Rate	Barrier Correction	Sub-total SWL	
Crane	1	BS Table C7 REF 101	94	65%	0	92	
Concrete Pump	2	BS Table C6 REF 36	106	100%	-10	99	
Concrete Lorry Mixer	4	BS Table C6 REF 33	96	100%	0	102	
Poker Vibrator	2	BS Table No. C6 REF 40	98	70%	0	99	
Bar Bender	1	CNP 021	90	100%	-10	80	
Air Compressor	2	CNP 002	102	100%	-10	95	
Total SWL						106	

(1/1/15 - 31/12/15)							
PME	Unit	TM Identification	SWL/unit	Utilisation Rate	Barrier Correction	Sub-total SWL	
Crane	1	BS Table C7 REF 101	94	65%	0	92	
Breaker, excavator mounted	1	BS Table C8 REF 13	110	80%	-5	104	
Excavator	1	BS Table C3 REF 35	106	65%	-5	99	
Dump Truck	2	BS Table C9 REF 24	104	65%	0	105	
Concrete Lorry Mixer	1	BS Table C6 REF 33	96	100%	0	96	
Poker Vibrator	2	BS Table No. C6 REF 40	98	70%	0	99	
Compactor, vibratory	1	CNP 050	105	70%	0	103	
Air compressor	1	CNP 002	102	100%	-10	92	
Total SWL						110	

**Project: KTD Construction Noise (Package F)**

**Title: Calculation Sound Power Level**

**Scenario:**

Mitigated 

F.20 Construction of Sung Wong Toi Road Footpath

(WorkSite ID = 635 - 636)

(2/1/14 - 2/7/15)

PME	Unit	TM Identification	SWL/unit	Utilisation Rate	Barrier Correction	Sub-total SWL
(Group 1 PME)						
Dump Truck	2	BS Table C9 REF 24	104	65%	0	105
Excavator	2	BS Table C3 REF 35	106	65%	-5	102
(Group 2 PME)						
Grader	2	BS Table C9 REF 8	111	50%	0	111
Loader	2	BS Table C3 REF 59	105	50%	0	105
(Group 3 PME)						
Vibratory Roller	1	BS Table C3 REF 116	106	80%	0	105
Road Roller	1	BS Table C8 REF 27	104	80%	0	103
Asphalt Paver	2	BS Table C8 REF 24	101	50%	-5	96
Planer	2	CNP 184	111	65%	0	112
<b>Max. Total SWL</b>						<b>113</b>

**Project: KTD Construction Noise (Package G)**

**Title: Calculation Sound Power Level**

**Scenario:**

Mitigated ▼

Package G - Trunk Road T2 and infrastructure works at South Apron

1 Trunk Road T2 between South Apron Area and CKL PCWA

G.1 Construction of Trunk Road T2, Local Roads L10, L18 and associated footpaths at South Apron

(WorkSite ID = 701 - 702)

(4/1/12 - 30/12/16)

PME	Unit	TM Identification	SWL/unit	Utilisation Rate	Barrier Correction	Sub-total SWL
Dump Truck	2	BS Table C9 REF 24	104	65%	0	105
Excavator	2	BS Table C3 REF 35	106	65%	-5	102
Grader	2	BS Table C9 REF 8	111	50%	0	111
Loader	2	BS Table C3 REF 59	105	50%	0	105
Vibratory Roller	1	BS Table C3 REF 116	106	80%	0	105
Road Roller	1	BS Table C8 REF 27	104	80%	0	103
Asphalt Paver	2	BS Table C8 REF 24	101	50%	-5	96
Planer	2	CNP 184	111	65%	0	112
<b>Total SWL</b>						<b>116</b>

G.2 Cut and Cover Section of T2

G.2a Diaphragm Wall

(WorkSite ID = 703 - 704)

(4/1/12 - 30/12/15)

PME	Unit	TM Identification	SWL/unit	Utilisation Rate	Barrier Correction	Sub-total SWL
Crane	4	BS Table C7 REF 101	94	65%	0	98
Excavator	2	BS Table C3 REF 35	106	65%	-5	102
Dump Truck	4	BS Table C9 REF 24	104	65%	0	108
Concrete Pump	2	BS Table C6 REF 36	106	100%	-10	99
Concrete Lorry Mixer	2	BS Table C6 REF 33	96	100%	0	99
Bentonite Plants	4	CNP 162	105	100%	-5	106
Bar Bender	2	CNP 021	90	100%	-10	83
Diaphragm Wall Rigs	4	CNP 164	115	65%	-5	114
<b>Total SWL</b>						<b>116</b>

G.2b Excavation

(WorkSite ID = 705 - 706)

(4/1/12 - 30/12/15)

PME	Unit	TM Identification	SWL/unit	Utilisation Rate	Barrier Correction	Sub-total SWL
Excavator	2	BS Table C3 REF 35	106	65%	-5	102
Dump Truck	6	BS Table C9 REF 24	104	65%	0	110
<b>Total SWL</b>						<b>111</b>

G.2c Construction of Slabs

(WorkSite ID = 707 - 708)

(4/1/12 - 30/12/15)

PME	Unit	TM Identification	SWL/unit	Utilisation Rate	Barrier Correction	Sub-total SWL
Crane	2	BS Table C7 REF 101	94	65%	0	95
Concrete Pump	2	BS Table C6 REF 36	106	100%	-10	99
Concrete Lorry Mixer	4	BS Table C6 REF 33	96	100%	0	102
Poker Vibrator	2	BS Table No. C6 REF 40	98	70%	0	99
Bar Bender	2	CNP 021	90	100%	-10	83
Air Compressor	4	CNP 002	102	100%	-10	98
<b>Total SWL</b>						<b>106</b>

G.2d Backfill

(WorkSite ID = 709 - 710)

(4/1/12 - 30/12/15)

PME	Unit	TM Identification	SWL/unit	Utilisation Rate	Barrier Correction	Sub-total SWL
Excavator	4	BS Table C3 REF 35	106	65%	-5	105
Bulldozer	2	BS Table C9 Ref 2	104	100%	0	107
Roller	2	BS Table C8 REF 30	101	100%	0	104
Dump Truck	4	BS Table C9 REF 24	104	65%	0	108
<b>Total SWL</b>						<b>112</b>

G.3 Immersed Tunnel Section of T2

G.3a Dredging and Preparation of Seabed

(WorkSite ID = 711 - 712)

(4/1/12 - 31/12/15)

PME	Unit	TM Identification	SWL/unit	Utilisation Rate	Barrier Correction	Sub-total SWL
Grab Dredger	2	CNP 063	112	100%	0	115
Tug Boat	2	CNP 221	110	100%	0	113
Barges	4	CNP 061	104	100%	0	110
<b>Total SWL</b>						<b>118</b>

G.3b Placement of Immersed Tunnels

(WorkSite ID = 713 - 714)

(3/9/12 - 30/12/16)

PME	Unit	TM Identification	SWL/unit	Utilisation Rate	Barrier Correction	Sub-total SWL
Crane	6	BS Table C7 REF 101	94	65%	0	100
Tug Boat	3	CNP 221	110	100%	0	115
Barges	6	CNP 061	104	100%	0	112
<b>Total SWL</b>						<b>117</b>

**Project: KTD Construction Noise (Package G)**

**Title: Calculation Sound Power Level**

Scenario: Mitigated ▼

G.4 Construction of Subway SB-03		(WorkSite ID = 715)				(2/1/14 - 30/12/16)	
PME	Unit	TM Identification	SWL/unit	Utilisation Rate	Barrier Correction	Sub-total SWL	
Dump Truck	1	BS Table C9 REF 24	104	65%	0	102	
Concrete Lorry Mixer	1	BS Table C6 REF 33	96	100%	0	96	
Excavator	1	BS Table C3 REF 35	106	65%	-5	99	
Poker Vibrator	2	BS Table No. C6 REF 40	98	70%	0	99	
Bulldozer	1	BS Table C9 Ref 2	104	100%	0	104	
Roller	1	BS Table C8 REF 30	101	100%	0	101	
Bar Bender	2	CNP 021	90	100%	-10	83	
Air Compressor	2	CNP 002	102	100%	-10	95	
Total SWL						109	

G.5 Construct Footbridge (FB-02)		(WorkSite ID = 716)				(2/1/14 - 31/12/15)	
G.5a Construction Bridge Foundation		Unit	TM Identification	SWL/unit	Utilisation Rate	Barrier Correction	Sub-total SWL
PME		2	BS Table C4 REF 44	109	65%	0	110
Pilling Rig		2	CNP 103	95	100%	-10	88
Generator		2	CNP 281	88	100%	-10	81
Water Pump		2	BS Table C7 REF 101	94	65%	0	95
Crane		4	BS Table C6 REF 36	106	100%	-10	102
Concrete Pump		8	BS Table C6 REF 33	96	100%	0	105
Concrete Lorry Mixer		4	BS Table No. C6 REF 40	98	70%	0	102
Poker Vibrator		2	CNP 021	90	100%	-10	83
Bar Bender		4	CNP 002	102	100%	-10	98
Air Compressor		Total SWL					113

G.5b Tower/ Bridge Deck / Cable Stays Construction		(WorkSite ID = 717)				(2/1/15 - 30/12/16)	
PME	Unit	TM Identification	SWL/unit	Utilisation Rate	Barrier Correction	Sub-total SWL	
Crane	2	BS Table C7 REF 101	94	65%	0	95	
Concrete Pump	4	BS Table C6 REF 36	106	100%	-10	102	
Concrete Lorry Mixer	8	BS Table C6 REF 33	96	100%	0	105	
Poker Vibrator	4	BS Table No. C6 REF 40	98	70%	0	102	
Bar Bender	2	CNP 021	90	100%	-10	83	
Air Compressor	4	CNP 002	102	100%	-10	98	
Total SWL						109	

G.6 Construction of ventilation shaft inside KTD site		(WorkSite ID = 718)				(2/1/13 - 30/12/16)	
PME	Unit	TM Identification	SWL/unit	Utilisation Rate	Barrier Correction	Sub-total SWL	
Crane	2	BS Table C7 REF 101	94	65%	0	95	
Concrete Pump	4	BS Table C6 REF 36	106	100%	-10	102	
Concrete Lorry Mixer	8	BS Table C6 REF 33	96	100%	0	105	
Poker Vibrator	4	BS Table No. C6 REF 40	98	70%	0	102	
Bar Bender	2	CNP 021	90	100%	-10	83	
Air Compressor	4	CNP 002	102	100%	-10	98	
Total SWL						109	

G.7 Construction of ventilation shaft and administration building for T2		(WorkSite ID = 719)				(2/1/13 - 30/12/16)	
PME	Unit	TM Identification	SWL/unit	Utilisation Rate	Barrier Correction	Sub-total SWL	
Crane	2	BS Table C7 REF 101	94	65%	0	95	
Concrete Pump	4	BS Table C6 REF 36	106	100%	-10	102	
Concrete Lorry Mixer	8	BS Table C6 REF 33	96	100%	0	105	
Poker Vibrator	4	BS Table No. C6 REF 40	98	70%	0	102	
Bar Bender	2	CNP 021	90	100%	-10	83	
Air Compressor	4	CNP 002	102	100%	-10	98	
Total SWL						109	

G.8 Drainage, Sewerage & Watermain		(WorkSite ID = 720 - 721)				(5/1/12 - 30/6/14)	
PME	Unit	TM Identification	SWL/unit	Utilisation Rate	Barrier Correction	Sub-total SWL	
Crane	1	BS Table C7 REF 101	94	65%	0	92	
Breaker, excavator mounted	1	BS Table C8 REF 13	110	80%	-5	104	
Excavator	1	BS Table C3 REF 35	106	65%	-5	99	
Dump Truck	2	BS Table C9 REF 24	104	65%	0	105	
Concrete Lorry Mixer	1	BS Table C6 REF 33	96	100%	0	96	
Poker Vibrator	2	BS Table No. C6 REF 40	98	70%	0	99	
Compactor, vibratory	1	CNP 050	105	70%	0	103	
Air compressor	1	CNP 002	102	100%	-10	92	
Total SWL						110	

**Project: KTD Construction Noise (Package G)**

**Title: Calculation Sound Power Level**

**Scenario:**

Mitigated ▼

**G.9 Kwun Tong Transportation Link**

**G.9a Construction Bridge Foundation**

(WorkSite ID = 722 - 723)

(1/1/13 - 31/12/16)

<b>PME</b>	<b>Unit</b>	<b>TM Identification</b>	<b>SWL/unit</b>	<b>Utilisation Rate</b>	<b>Barrier Correction</b>	<b>Sub-total SWL</b>
Piling Rig	2	BS Table C4 REF 44	109	65%	0	110
Generator	2	CNP 103	95	100%	-10	88
Water Pump	2	CNP 281	88	100%	-10	81
Crane	2	BS Table C7 REF 101	94	65%	0	95
Concrete Pump	2	BS Table C6 REF 36	106	100%	-10	99
Concrete Lorry Mixer	4	BS Table C6 REF 33	96	100%	0	102
Poker Vibrator	2	BS Table No. C6 REF 40	98	70%	0	99
Bar Bender	2	CNP 021	90	100%	-10	83
Air Compressor	4	CNP 002	102	100%	-10	98
<b>Total SWL</b>						<b>112</b>

**G.9b Tower/ Bridge Deck Construction**

(WorkSite ID = 724 - 725)

(1/1/13 - 31/12/16)

<b>PME</b>	<b>Unit</b>	<b>TM Identification</b>	<b>SWL/unit</b>	<b>Utilisation Rate</b>	<b>Barrier Correction</b>	<b>Sub-total SWL</b>
Crane	2	BS Table C7 REF 101	94	65%	0	95
Concrete Pump	2	BS Table C6 REF 36	106	100%	-10	99
Concrete Lorry Mixer	4	BS Table C6 REF 33	96	100%	0	102
Poker Vibrator	2	BS Table No. C6 REF 40	98	70%	0	99
Bar Bender	2	CNP 021	90	100%	-10	83
Air Compressor	4	CNP 002	102	100%	-10	98
<b>Total SWL</b>						<b>106</b>

**Project: KTD Construction Noise (SCL)**

**Title: Calculation Sound Power Level**

**Scenario:**

Mitigated ▼

SCL Construction

(1/7/10 - 31/12/15)

**S.1 Tunnel Construction C&C Tunnels between KTA and Launching Shaft**

(WorkSite ID = 801)

PME	Unit	TM Identification	SWL/unit	Utilisation Rate	Barrier Correction	Sub-total SWL
Crawler Crane	4	BS Table C7 REF 112	102	30%	0	103
Hydraulic Hammer	2	BS5228 P4 T1/53	118	65%	0	119
Cranes (Excavation)	2	BS Table C7 REF 101	94	30%	0	92
Backhoe	4	BS Table C3 REF 35	106	65%	0	110
Dump Truck	12	BS Table C9 REF 24	104	35%	0	110
Cranes (Services)	1	BS Table C7 REF 101	94	30%	0	89
Generator, standard	1	CNP 103	95	100%	0	95
Concrete Mixer Truck	6	BS Table C6 REF 33	96	100%	0	104
Concrete Pump Truck	2	BS Table C6 REF 36	106	100%	0	109
Bar Bender and Cutter	1	CNP 021	90	100%	0	90
Poker Vibratory Hammer	6	BS Table C6 REF 40	98	100%	0	106
<b>Total SWL</b>						<b>121</b>

**S.2 Tunnel Construction**

(WorkSite ID = 803)

PME	Unit	TM Identification	SWL/unit	Utilisation Rate	Barrier Correction	Sub-total SWL
Crawler Crane	4	BS Table C7 REF 112	102	30%	0	103
Hydraulic Hammer	2	BS5228 P4 T1/53	118	65%	0	119
Cranes (Excavation)	2	BS Table C7 REF 101	94	30%	0	92
Backhoe	4	BS Table C3 REF 35	106	65%	0	110
Dump Truck	12	BS Table C9 REF 24	104	35%	0	110
Cranes (Services)	1	BS Table C7 REF 101	94	30%	0	89
Generator, standard	1	CNP 103	95	100%	0	95
Concrete Mixer Truck	6	BS Table C6 REF 33	96	100%	0	104
Concrete Pump Truck	2	BS Table C6 REF 36	106	100%	0	109
Bar Bender and Cutter	1	CNP 021	90	100%	0	90
Poker Vibratory Hammer	6	BS Table C6 REF 40	98	100%	0	106
<b>Total SWL</b>						<b>121</b>

**S.3 Construction of Launching Shaft**

(WorkSite ID = 802, 804)

**Group 1 - Install 38 deep d.walls**

PME	Unit	TM Identification	SWL/unit	Utilisation Rate	Barrier Correction	Sub-total SWL
Bentonite Plant	1	CNP 162	105	100%	0	105
Bar Bender and Cutter	1	CNP 021	90	100%	0	90
Crane (Grab & Service)	2	BS Table C7 REF 101	94	30%	0	92
Dump Truck	3	BS Table C9 REF 24	104	65%	0	107
Concrete Mixer Truck	6	BS Table C6 REF 33	96	100%	0	104
Generator, standard	1	CNP 103	95	100%	0	95
<b>Total SWL</b>						<b>110</b>

**Group 2 - Excavate, brace to -19mPD / -15mPD**

PME	Unit	TM Identification	SWL/unit	Utilisation Rate	Barrier Correction	Sub-total SWL
Backhoe	4	BS Table C3 REF 35	106	65%	0	110
Dump Truck (on & off site)	12	BS Table C9 REF 24	104	65%	0	113
Crane	2	BS Table C7 REF 101	94	30%	0	92
Generator, standard	1	CNP 103	95	100%	0	95
<b>Total SWL</b>						<b>115</b>

**Group 3 - Structure at bottom of shaft**

PME	Unit	TM Identification	SWL/unit	Utilisation Rate	Barrier Correction	Sub-total SWL
Crane	1	BS Table C7 REF 101	94	30%	0	89
Generator, standard	1	CNP 103	95	100%	0	95
Concrete Mixer Truck	6	BS Table C6 REF 33	96	100%	0	104
Concrete Pump Truck	1	BS Table C6 REF 36	106	100%	0	106
Bar Bender and Cutter	1	CNP 021	90	100%	0	90
Poker Vibratory Hammer	6	BS Table C6 REF 40	98	100%	0	106
<b>Total SWL</b>						<b>110</b>
<b>Max. SWL</b>						<b>115</b>

**S.4 Deliver and Assemble TBM**

(WorkSite ID = 802, 804)

PME	Unit	TM Identification	SWL/unit	Utilisation Rate	Barrier Correction	Sub-total SWL
Crane	1	BS Table C7 REF 101	94	30%	0	89
Truck	2	BS Table C9 REF 19	102	65%	0	103
Generator, standard	1	CNP 103	95	100%	0	95
<b>Total SWL</b>						<b>104</b>



**Project: KTD Construction Noise (SCL)**

**Title: Calculation Sound Power Level**

Scenario:

Mitigated ▼

S.5 TBM to To Kwa Wan Station		(WorkSite ID = 802, 804)			(4/1/12 - 30/12/16)	
PME	Unit	TM Identification	SWL/unit	Utilisation Rate	Barrier Correction	Sub-total SWL
TBM	1	TBM	103	100%	0	103
Conveyer/Muck Car system	1	CNP 041	90	100%	0	90
Dump Truck (on & off site)	15	BS Table C9 REF 24	104	65%	0	114
Backhoe	2	BS Table C3 REF 35	106	65%	0	107
Gantry Crane	1	CNP 049	95	30%	0	90
Grout Plant	1	BS5228 C6 Ref 13	108	100%	0	108
Material Delivery Truck	1	BS Table C9 REF 19	102	65%	0	100
Segment Delivery Truck	1	BS Table C9 REF 19	102	65%	0	100
Forklifts	2	BS5228 C7 Ref 93	104	65%	0	105
Pumps	2	CNP 281	88	100%	0	91
Generator, standard	1	CNP 103	95	100%	0	95
Mobile Crane	1	BS Table C7 REF 112	102	30%	0	97
					Total SWL	116
S.6 TBM Removal		(WorkSite ID = 802, 804)				
PME	Unit	TM Identification	SWL/unit	Utilisation Rate	Barrier Correction	Sub-total SWL
Crane	1	BS Table C7 REF 101	94	30%	0	89
Truck	2	BS Table C9 REF 19	102	65%	0	103
Generator, standard	1	CNP 103	95	100%	-10	85
					Total SWL	103
S.7 Kai Tak Station		(WorkSite ID = 805)				
Group 1 - Install 24m FSP4 sheet piles as water cutoff						
Backhoe	4	BS Table C3 REF 35	106	100%	0	112
Drill Rig	2	BS5228 C10 Ref 2	112	100%	0	115
Vibratory Hammer	4	BS5228 P4 T1/53	118	100%	0	124
					Total SWL	125
Group 2 - Excavate down to -11.0mPD						
Backhoe	10	BS Table C3 REF 35	106	100%	0	116
Dump Truck	14	BS Table C9 REF 24	104	100%	0	115
Crane	2	BS Table C7 REF 101	94	100%	0	97
Piling Rig	6	BS Table C4 REF 44	109	100%	0	117
					Total SWL	121
Group 3 - Drive 400 Nos tension H-piles						
Drill Rig	2	BS5228 C10 Ref 2	112	100%	0	115
Piling Rig	6	BS Table C4 REF 44	109	100%	0	117
Crane	2	BS Table C7 REF 101	94	100%	0	97
					Total SWL	119
Group 4 - Test tension piles						
Crane	2	BS Table C7 REF 101	94	100%	0	97
					Total SWL	97
Group 5 - BS-Fix reinforcement bar						
Bar Bender and Cutter	2	CNP 021	90	100%	0	93
Crane	2	BS Table C7 REF 101	94	100%	0	97
					Total SWL	98
Group 6 - Concrete base slab (BS)						
Concrete Mixer Truck	10	BS Table C6 REF 33	96	100%	0	106
Concrete Pump Truck	4	BS Table C6 REF 36	106	100%	0	112
Crane	2	BS Table C7 REF 101	94	100%	0	97
Poker Vibratory Hammer	4	BS Table C6 REF 40	98	100%	0	104
					Total SWL	114
Group 7 - W&C to ML - Lower section of walls and columns						
Concrete Mixer Truck	2	BS Table C6 REF 33	96	100%	0	99
Concrete Pump Truck	2	BS Table C6 REF 36	106	100%	0	109
Crane	1	BS Table C7 REF 101	94	100%	0	94
Poker Vibratory Hammer	2	BS Table C6 REF 40	98	100%	0	101
					Total SWL	110

**Project: KTD Construction Noise (SCL)**

**Title: Calculation Sound Power Level**

Scenario:

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**Group 8 - W&C to ML - Upper section of walls and columns**

Concrete Mixer Truck	2	BS Table C6 REF 33	96	100%	0	99
Concrete Pump Truck	2	BS Table C6 REF 36	106	100%	0	109
Crane	1	BS Table C7 REF 101	94	100%	0	94
Poker Vibratory Hammer	2	BS Table C6 REF 40	98	100%	0	101
Bulldozer	2	BS Table C9 Ref 2	104	100%	0	107
<b>Total SWL</b>						<b>112</b>

**Group 9 - MS - Case PSD hanger walls**

Concrete Mixer Truck	2	BS Table C6 REF 33	96	100%	0	99
Concrete Pump Truck	2	BS Table C6 REF 36	106	100%	0	109
Crane	1	BS Table C7 REF 101	94	100%	0	94
Poker Vibratory Hammer	2	BS Table C6 REF 40	98	100%	0	101
<b>Total SWL</b>						<b>110</b>

**Group 10 - MS - Case bottom slab of OHE duct**

Concrete Mixer Truck	2	BS Table C6 REF 33	96	100%	0	99
Concrete Pump Truck	2	BS Table C6 REF 36	106	100%	0	109
Crane	1	BS Table C7 REF 101	94	100%	0	94
Poker Vibratory Hammer	2	BS Table C6 REF 40	98	100%	0	101
<b>Total SWL</b>						<b>110</b>

**Group 11 - MS - Case mezzanine slab (MS)**

Concrete Mixer Truck	6	BS Table C6 REF 33	96	100%	0	104
Concrete Pump Truck	3	BS Table C6 REF 36	106	100%	0	111
Crane	2	BS Table C7 REF 101	94	100%	0	97
Poker Vibratory Hammer	4	BS Table C6 REF 40	98	100%	0	104
<b>Total SWL</b>						<b>112</b>

**Group 12 - W&C to CL-Cast walls and columns**

Concrete Mixer Truck	2	BS Table C6 REF 33	96	100%	0	99
Concrete Pump Truck	2	BS Table C6 REF 36	106	100%	0	109
Crane	1	BS Table C7 REF 101	94	100%	0	94
Poker Vibratory Hammer	2	BS Table C6 REF 40	98	100%	0	101
<b>Total SWL</b>						<b>110</b>

**Group 13 - W&C to CL-waterproofing behind walls**

Crane	1	BS Table C7 REF 101	94	100%	0	94
<b>Total SWL</b>						<b>94</b>

**Group 14 - W&C to CL-Concourse slab (CS)**

Concrete Mixer Truck	6	BS Table C6 REF 33	96	100%	0	104
Concrete Pump Truck	3	BS Table C6 REF 36	106	100%	0	111
Crane	2	BS Table C7 REF 101	94	100%	0	97
Poker Vibratory Hammer	4	BS Table C6 REF 40	98	100%	0	104
<b>Total SWL</b>						<b>112</b>

**Group 15 - Platform slab (PS)**

Concrete Mixer Truck	2	BS Table C6 REF 33	96	100%	0	99
Concrete Pump Truck	2	BS Table C6 REF 36	106	100%	0	109
Crane	1	BS Table C7 REF 101	94	100%	0	94
Poker Vibratory Hammer	2	BS Table C6 REF 40	98	100%	0	101
<b>Total SWL</b>						<b>110</b>

**Group 16 - Backfilling around station box**

Bulldozer	3	BS Table C9 Ref 2	104	100%	0	109
Vibratory Hammer Roller	4	BS Table C8 REF 30	101	100%	0	107
<b>Total SWL</b>						<b>111</b>

**Group 17 - Backfill around station box up from -2mPD to -5mPD**

Bulldozer	3	BS Table C9 Ref 2	104	100%	0	109
Vibratory Hammer Roller	4	BS Table C8 REF 30	101	100%	0	107
<b>Total SWL</b>						<b>111</b>

**Group 18 - Remove sheet piles**

Crane	2	BS Table C7 REF 101	94	100%	0	97
Dump Truck	2	BS Table C9 REF 24	104	100%	0	107
Backhoe	2	BS Table C3 REF 35	106	100%	0	109
Vibratory Hammer	2	BS5228 P4 T1/53	118	100%	0	121
<b>Total SWL</b>						<b>121</b>

**Project: KTD Construction Noise (SCL)**

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Scenario:

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<b>Group 19 - Install steel works</b>							
Crane	4	BS Table C7 REF 101	94	100%	0	100	
						<b>Total SWL</b>	<b>100</b>
<b>Group 20 - Install main components</b>							
Crane	4	BS Table C7 REF 101	94	100%	0	100	
						<b>Total SWL</b>	<b>100</b>
<b>Group 21 - Structural works</b>							
Concrete Mixer Truck	3	BS Table C6 REF 33	96	100%	0	101	
Concrete Pump Truck	3	BS Table C6 REF 36	106	100%	0	111	
Bar Bender and Cutter	3	CNP 021	90	100%	0	95	
Crawler Crane	2	BS Table C7 REF 112	102	100%	0	105	
						<b>Total SWL</b>	<b>112</b>
						<b>Max. SWL</b>	<b>125</b>
<b>S.8 Tok Kwa Wan Station (WorkSite ID = 806)</b>							
<b>Group 1 - Demolition of ESMD blocks</b>							
Crane	2	BS Table C7 REF 101	94	100%	0	97	
Backhoe	4	BS Table C3 REF 35	106	100%	0	112	
Dump Truck	4	BS Table C9 REF 24	104	100%	0	110	
Bulldozer	2	BS Table C9 Ref 2	104	100%	0	107	
Hydraulic Breaker	2	BS Table C8 REF 13	110	100%	0	113	
						<b>Total SWL</b>	<b>117</b>
<b>Group 2 - Build dia 1350 sewer main in Sung Wong Toi Road</b>							
Crane	1	BS Table C7 REF 101	94	100%	0	94	
Backhoe	1	BS Table C3 REF 35	106	100%	0	106	
						<b>Total SWL</b>	<b>106</b>
<b>Group 3 - Build dia 1350 sewer main across station</b>							
Crane	1	BS Table C7 REF 101	94	100%	0	94	
Backhoe	1	BS Table C3 REF 35	106	100%	0	106	
						<b>Total SWL</b>	<b>106</b>
<b>Group 4 - Divert traffic south of Entrance C</b>							
Crane	1	BS Table C7 REF 101	94	100%	0	94	
Backhoe	1	BS Table C3 REF 35	106	100%	0	106	
						<b>Total SWL</b>	<b>106</b>
<b>Group 5 - Expose HV CLP cables that affect d wall construction</b>							
Crane	1	BS Table C7 REF 101	94	100%	0	94	
Backhoe	1	BS Table C3 REF 35	106	100%	0	106	
						<b>Total SWL</b>	<b>106</b>
<b>Group 6 - Build dia 1350 sewer main south of Entrance C</b>							
Crane	1	BS Table C7 REF 101	94	100%	0	94	
Backhoe	1	BS Table C3 REF 35	106	100%	0	106	
						<b>Total SWL</b>	<b>106</b>
<b>Group 7 - Build dia 1350 sewer main south of Entrance C</b>							
Crane	1	BS Table C7 REF 101	94	100%	0	94	
Backhoe	2	BS Table C3 REF 35	106	100%	0	109	
						<b>Total SWL</b>	<b>109</b>
<b>Group 8 - Dig trench along Northern D-wall, clear utilities</b>							
Crane	1	BS Table C7 REF 101	94	100%	0	94	
Dump Truck	2	BS Table C9 REF 24	104	100%	0	107	
Backhoe	2	BS Table C3 REF 35	106	100%	0	109	
						<b>Total SWL</b>	<b>111</b>
<b>Group 9 - Build guide walls of D-wall along TKW Road</b>							
Crane	2	BS Table C7 REF 101	94	100%	0	97	
Drill Rig	3	BS5228 C10 Ref 2	112	100%	0	117	
Backhoe	2	BS Table C3 REF 35	106	100%	0	109	
						<b>Total SWL</b>	<b>117</b>

**Project: KTD Construction Noise (SCL)**

**Title: Calculation Sound Power Level**

**Scenario:**

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**Group 10 - Construct guide walls**

Crane	2	BS Table C7 REF 101	94	100%	0	97
Drill Rig	3	BS5228 C10 Ref 2	112	100%	0	117
Backhoe	2	BS Table C3 REF 35	106	100%	0	109
<b>Total SWL</b>						<b>117</b>

**Group 11 - Build 70 No. D-wall panels 6.2m long each**

Bentonite Plant	1	CNP 162	105	100%	0	105
Crane	2	BS Table C7 REF 101	94	100%	0	97
Backhoe	6	BS Table C3 REF 35	106	100%	0	114
Dump Truck	1	BS Table C9 REF 24	104	100%	0	104
Drill Rig	6	BS5228 C10 Ref 2	112	100%	0	120
<b>Total SWL</b>						<b>121</b>

**Group 12 - Install king post**

Crawler Crane	2	BS Table C7 REF 112	102	100%	0	105
Backhoe	2	BS Table C3 REF 35	106	100%	0	109
<b>Total SWL</b>						<b>110</b>

**Group 13 - Install shear pins and grout at toe of D-walls**

Crawler Crane	2	BS Table C7 REF 112	102	100%	0	105
Grouting machine	1		94	100%	0	94
Bar Bender and Cutter	2	CNP 021	90	100%	0	93
Concrete Mixer Truck	2	BS Table C6 REF 33	96	100%	0	99
Concrete Pump Truck	2	BS Table C6 REF 36	106	100%	0	109
Backhoe	2	BS Table C3 REF 35	106	100%	0	109
<b>Total SWL</b>						<b>113</b>

**Group 14 - Build dia. 1350 sewer div. over completed panels**

Backhoe	2	BS Table C3 REF 35	106	100%	0	109
Crane	1	BS Table C7 REF 101	94	100%	0	94
<b>Total SWL</b>						<b>109</b>

**Group 15 - Build Rd decking & shift Sun Wong Toi Traffic**

Backhoe	1	BS Table C3 REF 35	106	100%	0	106
Drill Rig	3	BS5228 C10 Ref 2	112	100%	0	117
Crane	2	BS Table C7 REF 101	94	100%	0	97
<b>Total SWL</b>						<b>117</b>

**Group 16 - Construct guide walls**

Crane	1	BS Table C7 REF 101	94	100%	0	94
Drill Rig	3	BS5228 C10 Ref 2	112	100%	0	117
Backhoe	2	BS Table C3 REF 35	106	100%	0	109
<b>Total SWL</b>						<b>117</b>

**Group 17 - Build 6.4m panel not affected by u/g service**

Bentonite Plant	1	CNP 162	105	100%	0	105
Backhoe	6	BS Table C3 REF 35	106	100%	0	114
<b>Total SWL</b>						<b>114</b>

**Group 18 - Install supports to road decking and struts**

Backhoe	1	BS Table C3 REF 35	106	100%	0	106
<b>Total SWL</b>						<b>106</b>

**Group 19 - Remove abandoned sewer pipes & overflow chamber**

Dump Truck	2	BS Table C9 REF 24	104	100%	0	107
Hydraulic Breaker	1	BS Table C8 REF 13	110	100%	0	110
Backhoe	2	BS Table C3 REF 35	106	100%	0	109
<b>Total SWL</b>						<b>114</b>

**Group 20 - Shift CLP HV cables**

Backhoe	1	BS Table C3 REF 35	106	100%	0	106
<b>Total SWL</b>						<b>106</b>

**Group 21 - Complete D-wall construction (7 panels)**

Bentonite Plant	1	CNP 162	105	100%	0	105
Crane	3	BS Table C7 REF 101	94	100%	0	99
Backhoe	6	BS Table C3 REF 35	106	100%	0	114
Drill Rig	3	BS5228 C10 Ref 2	112	100%	0	117
<b>Total SWL</b>						<b>119</b>

**Project: KTD Construction Noise (SCL)**

**Title: Calculation Sound Power Level**

**Scenario:**

Mitigated ▼

**Group 22 - Support utilities across station**

Crane	1	BS Table C7 REF 101	94	100%	0	94
Backhoe	2	BS Table C3 REF 35	106	100%	0	109
<b>Total SWL</b>						<b>109</b>

**Group 23 - Build road decking over northern half of station**

Crane	1	BS Table C7 REF 101	94	100%	0	94
Backhoe	2	BS Table C3 REF 35	106	100%	0	109
<b>Total SWL</b>						<b>109</b>

**Group 24 - Excavate to from 1.5mPD to**

Backhoe	5	BS Table C3 REF 35	106	100%	0	113
Dump Truck	8	BS Table C9 REF 24	104	100%	0	113
Crawler Crane	2	BS Table C7 REF 112	102	100%	0	105
<b>Total SWL</b>						<b>116</b>

**Group 25 - Install struts at 2.0mPD**

Crawler Crane	2	BS Table C7 REF 112	102	100%	0	105
<b>Total SWL</b>						<b>105</b>

**Group 26 - Excavate from -5.5mPD to -32.5mPD**

Backhoe	7	BS Table C3 REF 35	106	100%	0	114
Dump Truck	12	BS Table C9 REF 24	104	100%	0	115
Crawler Crane	2	BS Table C7 REF 112	102	100%	0	105
<b>Total SWL</b>						<b>118</b>

**Group 27 - Install struts**

Crawler Crane	2	BS Table C7 REF 112	102	100%	0	105
<b>Total SWL</b>						<b>105</b>

**Group 28 - Rock excavation at eastern end**

Backhoe	2	BS Table C3 REF 35	106	100%	0	109
Dump Truck	2	BS Table C9 REF 24	104	100%	0	107
Crawler Crane	2	BS Table C7 REF 112	102	100%	0	105
<b>Total SWL</b>						<b>112</b>

**Group 29 - Grouting work (break in, break out)**

Grouting machine	1	-	94	100%	0	94
<b>Total SWL</b>						<b>94</b>

**Group 30 - TS-Fix, UTS-fix, MS-fix, CS-fix, RF-fix reinforcement bars**

Bar Bender and Cutter	2	CNP 021	90	100%	0	93
Poker Vibratory Hammer	2	BS Table C6 REF 40	98	100%	0	101
<b>Total SWL</b>						<b>102</b>

**Group 31 - TS-Cast, UTS-Cast, MS-Cast, CS-Cast, CS Form, RF-Cast concrete bays, UTS-Install falsework, form slab soffit**

Poker Vibratory Hammer	2	BS Table C6 REF 40	98	100%	0	101
Bar Bender and Cutter	2	CNP 021	90	100%	0	93
Concrete Mixer Truck	2	BS Table C6 REF 33	96	100%	0	99
Concrete Pump Truck	2	BS Table C6 REF 36	106	100%	0	109
Crawler Crane	1	BS Table C7 REF 112	102	100%	0	102
<b>Total SWL</b>						<b>111</b>

**Group 32 - Removal of TBM plant & services in lower tunnel**

Crawler Crane	1	BS Table C7 REF 112	102	100%	0	102
Dump Truck	2	BS Table C9 REF 24	104	100%	0	107
Hydraulic Breaker	1	BS Table C8 REF 13	110	100%	0	110
<b>Total SWL</b>						<b>112</b>

**Group 33 - Complete upper track slab, MS-form mezzanine slab**

Poker Vibratory Hammer	2	BS Table C6 REF 40	98	100%	0	101
Bar Bender and Cutter	2	CNP 021	90	100%	0	93
Concrete Mixer Truck	2	BS Table C6 REF 33	96	100%	0	99
Concrete Pump Truck	2	BS Table C6 REF 36	106	100%	0	109
Crawler Crane	1	BS Table C7 REF 112	102	100%	0	102
<b>Total SWL</b>						<b>111</b>

**Project: KTD Construction Noise (SCL)**

**Title: Calculation Sound Power Level**

**Scenario:**

Mitigated ▼

**Group 34 - LTS, UTS-Cast PSd and OHE walls and LTS, LTS-cast lower platform slab & UTS-cast upper platform slab**

Poker Vibratory Hammer	2	BS Table C6 REF 40	98	100%	0	101
Bar Bender and Cutter	2	CNP 021	90	100%	0	93
Concrete Mixer Truck	2	BS Table C6 REF 33	96	100%	0	99
Concrete Pump Truck	2	BS Table C6 REF 36	106	100%	0	109
Crawler Crane	1	BS Table C7 REF 112	102	100%	0	102
<b>Total SWL</b>						<b>111</b>

**Group 35 - Install sheet pile wall**

Drill Rig	2	BS5228 C10 Ref 2	112	100%	0	115
Backhoe	2	BS Table C3 REF 35	106	100%	0	109
<b>Total SWL</b>						<b>116</b>

**Group 36 - Structural works and Build structure above ground level**

Poker Vibratory Hammer	4	BS Table C6 REF 40	98	100%	0	104
Bar Bender and Cutter	4	CNP 021	90	100%	0	96
Concrete Mixer Truck	4	BS Table C6 REF 33	96	100%	0	102
Concrete Pump Truck	4	BS Table C6 REF 36	106	100%	0	112
Crawler Crane	2	BS Table C7 REF 112	102	100%	0	105
<b>Total SWL</b>						<b>114</b>
<b>Max. SWL</b>						<b>121</b>

**Project: KTD Construction Noise (CKR)**

**Title: Calculation Sound Power Level**

**Scenario:**

Mitigated ▼

CKR Construction

(2012 - 2016)

**CKR.1 CKR inside KTD**

(WorkSite ID = 901 - 903)

<b>PME</b>	<b>Unit</b>	<b>TM Identification</b>	<b>SWL/unit</b>	<b>Utilisation Rate</b>	<b>Barrier Correction</b>	<b>Sub-total SWL</b>
Crawler Crane	2	BS Table C7 REF 112	102	30%	0	100
Hydraulic Hammer	2	BS5228 P4 T1/53	118	65%	0	119
Cranes (Excavation)	2	BS Table C7 REF 101	94	30%	0	92
Backhoe	2	BS Table C3 REF 35	106	65%	0	107
Dump Truck	6	BS Table C9 REF 24	104	35%	0	107
Cranes (Services)	2	BS Table C7 REF 101	94	30%	0	92
Generator, standard	1	CNP 103	95	100%	0	95
Concrete Mixer Truck	2	BS Table C6 REF 33	96	100%	0	99
Concrete Pump Truck	2	BS Table C6 REF 36	106	100%	0	109
Bar Bender and Cutter	4	CNP 021	90	100%	0	96
Poker Vibratory Hammer	4	BS Table C6 REF 40	98	100%	0	104
<b>Total SWL</b>						<b>120</b>

**CKR.2 CKR near Grand Waterfront**

(WorkSite ID = 904)

<b>PME</b>	<b>Unit</b>	<b>TM Identification</b>	<b>SWL/unit</b>	<b>Utilisation Rate</b>	<b>Barrier Correction</b>	<b>Sub-total SWL</b>
Crawler Crane	2	BS Table C7 REF 112	102	30%	0	100
Hydraulic Hammer	2	BS5228 P4 T1/53	118	65%	0	119
Cranes (Excavation)	2	BS Table C7 REF 101	94	30%	0	92
Backhoe	2	BS Table C3 REF 35	106	65%	0	107
Dump Truck	6	BS Table C9 REF 24	104	35%	0	107
Cranes (Services)	2	BS Table C7 REF 101	94	30%	0	92
Generator, standard	1	CNP 103	95	100%	0	95
Concrete Mixer Truck	2	BS Table C6 REF 33	96	100%	0	99
Concrete Pump Truck	2	BS Table C6 REF 36	106	100%	0	109
Bar Bender and Cutter	4	CNP 021	90	100%	0	96
Poker Vibratory Hammer	4	BS Table C6 REF 40	98	100%	0	104
<b>Total SWL</b>						<b>120</b>

**CKR.3 CKR Placement of Immersed Tunnels**

(WorkSite ID = 905)

<b>PME</b>	<b>Unit</b>	<b>TM Identification</b>	<b>SWL/unit</b>	<b>Utilisation Rate</b>	<b>Barrier Correction</b>	<b>Sub-total SWL</b>
Crane	3	BS Table C7 REF 101	94	65%	0	97
Tug Boat	2	CNP 221	110	100%	0	113
Barges	3	CNP 061	104	100%	0	109
<b>Total SWL</b>						<b>114</b>

