

Powered Mechanical Equipment (PME) for the Different Construction Tasks during Normal Daytime Working Hours (Without Mitigation Measures)

PME for SCS Construction

Major Construction Equipment for North Point

North Point PTW - Drop Shaft (construction of upper shaft, Diaphragm wall at shaft)(Feb 2009 - Nov 2009)

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Mobile Crane	CNP 048	1	112.0	85.0%	111.3
Lorry	CNP 141	2	112.0	85.0%	114.3
Concrete Lorry Mixer	CNP 044	2	109.0	85.0%	111.3
Concrete Pump Truck	CNP 047	1	109.0	85.0%	108.3
Excavator	CNP 081	1	112.0	85.0%	111.3
Chisel	CNP 164	1	115.0	85.0%	114.3
Total					120.0

North Point PTW - Drop Shaft (construction of upper shaft, Excavation at shaft)(Dec 2009 - Feb 2010)

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Excavator	CNP 081	1	112.0	85.0%	111.3
Mobile Crane	CNP 048	1	112.0	85.0%	111.3
Dump Truck	CNP067	2	117.0	85.0%	119.3
Welding Machine	**	1	100.0	85.0%	99.3
Mini Excavator	BS TableC3 108	1	97.0	85.0%	96.3
Total					120.5

North Point PTW - Drop Shaft (Construction of lower shaft)(Mar 2010 - Aug 2010)

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Crawler Drill	*	1			
Dump Truck	CNP 067	2	117.0	85.0%	119.3
Generator	CNP 101	2	108.0	85.0%	110.3
Hydraulic Breaker	*	1			
Ventilation Fan	!	2	85.0	100.0%	88.0
Mobile Crane	CNP 048	1	112.0	85.0%	111.3
Air Compressor	CNP 001	1	109.0	85.0%	108.3
Circular Saw	CNP 201	1	108.0	85.0%	107.3
Concrete Pump Truck	CNP 047	2	109.0	85.0%	111.3
Concrete Lorry Mixer	CNP 044	2	109.0	85.0%	111.3
Pokers	CNP 170	1	113.0	85.0%	112.3
Total					122.2

North Point PTW - Drop Shaft Finishing Works(Oct 2012 - Jun 2013)(Phase 3)

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Generator	CNP 101	2	108.0	85.0%	110.3
Crane Lorry	CNP 048	1	112.0	85.0%	111.3
Mobile Crane	CNP 048	1	112.0	85.0%	111.3
Air Compressor	CNP 001	2	109.0	85.0%	111.3
Circular Saw	CNP 201	1	108.0	85.0%	107.3
Concrete Pump Truck	CNP 047	2	109.0	85.0%	111.3
Lorry	CNP 141	2	112.0	85.0%	114.3
Total					119.9

North Point PTW - Production Shaft (construction of upper shaft, Diaphragm wall at shaft)(Feb 2009 - Sep 2009)

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Mobile Crane	CNP 048	1	112.0	85.0%	111.3
Lorry	CNP 141	2	112.0	85.0%	114.3
Concrete Lorry Mixer	CNP 044	2	109.0	85.0%	111.3
Concrete Pump Truck	CNP 047	1	109.0	85.0%	108.3
Excavator	CNP 081	1	112.0	85.0%	111.3
Chisel	CNP 164	1	115.0	85.0%	114.3
Total					120.0

* Underground plant

** Reference from East Rail Extension

*** Reference from KCRC KSL 100 EIA

@ Reference from Hong Kong West Drainage Tunnel EIA (Final)

! Good Practices on Vent. System Noise Control (EPD April 2006)

North Point PTW - Production Shaft (construction of upper shaft, Excavation at shaft)(Oct 2009 - Nov 2009)

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Excavator	CNP 081	1	112.0	85.0%	111.3
Mobile Crane	CNP 048	1	112.0	85.0%	111.3
Dump Truck	CNP 067	2	117.0	85.0%	119.3
Welding Machine	**	1	100.0	85.0%	99.3
Mini Excavator	BS TableC3 108	1	97.0	85.0%	96.3
Total					120.5

North Point PTW - Production Shaft (construction of lower shaft)(Dec 2009 - Mar 2010)

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Crawler Drill	*	1			
Dump Truck	CNP 067	2	117.0	85.0%	119.3
Generator	CNP 101	2	108.0	85.0%	110.3
Hydraulic Breaker	*	1			
Ventilation Fan	!	2	85.0	100.0%	88.0
Mobile Crane	CNP 048	1	112.0	85.0%	111.3
Air Compressor	CNP 001	1	109.0	85.0%	108.3
Circular Saw	CNP 201	1	108.0	85.0%	107.3
Concrete Pump Truck	CNP 047	2	109.0	85.0%	111.3
Concrete Lorry Mixer	CNP 044	2	109.0	85.0%	111.3
Pokers	CNP 170	1	113.0	85.0%	112.3
Total					122.2

North Point PTW - Production Shaft (tunnel construction)(Apr 2010 - Sep 2013)

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Gantry	***	1	95.0	85.0%	94.3
Generator	*	2			
Air compressor	*	1			
Conveyor belt	*	2			
Ventilation fan	!	4	85.0	100.0%	91.0
Mortar plant	CNP 022	1	108.0	85.0%	107.3
Mortar pump	CNP 047	1	109.0	85.0%	108.3
Water Pump	*	2			
Diesel Train	*	1			
Mortar car	*	1			
TBM	*	1			
Total					111.0

Construction of Ramp and Tipping Hall for Barging Facilities (Feb 2009 - July 2009)

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Excavator	CNP 081	1	112.0	85.0%	111.3
Dump Truck	CNP 067	2	117.0	85.0%	119.3
Roller	CNP 185	1	108.0	85.0%	107.3
Mobile Crane	CNP048	1	112.0	85.0%	111.3
Welding Machine	**	2	100.0	85.0%	102.3
Generator	CNP101	1	108.0	85.0%	107.3
Total					121.0

Barging Activities (Aug 2009 - Sep 2013)

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Derrick barge	CNP 061	1	104.0	85.0%	103.3
Dump Truck	CNP 067	2	117.0	85.0%	119.3
Total					119.4

* Underground plant

** Reference form East Rail Extension

*** Reference form KCRC KSL 100 EIA

@ Reference from Hong Kong West Drainage Tunnel EIA (Final)

! Good Practices on Vent. System

Noise Control (EPD April 2006)

Powered Mechanical Equipment (PME) for the Different Construction Tasks during Normal Daytime Working Hours (Without Mitigation Measures)

PME for SCS Construction

Major Construction Equipment for Wan Chai East

Wan Chai East PTW - Drop / Riser Shaft (construction of upper shaft, Diaphragm wall at shaft)(Feb 2009 - Sep 2009)

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Mobile Crane	CNP 048	1	112.0	85.0%	111.3
Lorry	CNP 141	2	112.0	85.0%	114.3
Concrete Lorry Mixer	CNP 044	2	109.0	85.0%	111.3
Concrete Pump Truck	CNP 047	1	109.0	85.0%	108.3
Excavator	CNP 081	1	112.0	85.0%	111.3
Chisel	CNP 164	1	115.0	85.0%	114.3
Total					120.0

Wan Chai East PTW - Drop / Riser Shaft (construction of upper shaft, Excavation at shaft)(Oct 2009 - Nov 2009)

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Excavator	CNP 081	1	112.0	85.0%	111.3
Mobile Crane	CNP 048	1	112.0	85.0%	111.3
Dump Truck	CNP067	2	117.0	85.0%	119.3
Welding Machine	**	1	100.0	85.0%	99.3
Mini Excavator	BS TableC3 108	1	97.0	85.0%	96.3
Total					120.5

Wan Chai East PTW - Drop / Riser Shaft (Construction of lower shaft)(Dec 2009 - Sep 2013)

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Crawler Drill*		1			
Dump Truck	CNP 067	2	117.0	85.0%	119.3
Generator	CNP 101	2	108.0	85.0%	110.3
Hydraulic Breaker*		1			
Ventilation Fan	!	2	85.0	100.0%	88.0
Mobile Crane	CNP 048	1	112.0	85.0%	111.3
Air Compressor	CNP 001	1	109.0	85.0%	108.3
Circular Saw	CNP 201	1	108.0	85.0%	107.3
Concrete Pump Truck	CNP 047	2	109.0	85.0%	111.3
Concrete Lorry Mixer	CNP 044	2	109.0	85.0%	111.3
Pokers	CNP 170	1	113.0	85.0%	112.3
Total					122.2

Wan Chai East PTW - Drop / Riser Shaft Finishing Works(Jan 2010 - Sep 2013)(Phase 3)

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Generator	CNP 101	2	108.0	85.0%	110.3
Crane Lorry	CNP 048	1	112.0	85.0%	111.3
Mobile Crane	CNP 048	1	112.0	85.0%	111.3
Air Compressor	CNP 001	2	109.0	85.0%	111.3
Circular Saw	CNP 201	1	108.0	85.0%	107.3
Concrete Pump Truck	CNP 047	2	109.0	85.0%	111.3
Lorry	CNP 141	2	112.0	85.0%	114.3
Total					119.9

Wan Chai East PTW - Production Shaft (construction of upper shaft, Diaphragm wall at shaft)(Feb 2009 - Sep 2009)

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Mobile Crane	CNP 048	1	112.0	85.0%	111.3
Lorry	CNP 141	2	112.0	85.0%	114.3
Concrete Lorry Mixer	CNP 044	2	109.0	85.0%	111.3
Concrete Pump Truck	CNP 047	1	109.0	85.0%	108.3
Excavator	CNP 081	1	112.0	85.0%	111.3
Chisel	CNP 164	1	115.0	85.0%	114.3
Total					120.0

* Underground plant

** Reference form East Rail Extension

*** Reference form KCRC KSL 100 EIA

@ Reference from Hong Kong West Drainage Tunnel EIA (Final)

! Good Practices on Vent. System

Noise Control (EPD April 2006)

Wan Chai East PTW - Production Shaft (construction of upper shaft, Excavation at shaft)(Feb 2009 - Sep 2009)

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Excavator	CNP 081	1	112.0	85.0%	111.3
Mobile Crane	CNP 048	1	112.0	85.0%	111.3
Dump Truck	CNP 067	2	117.0	85.0%	119.3
Welding Machine	**	1	100.0	85.0%	99.3
Mini Excavator	BS TableC3 108	1	97.0	85.0%	96.3
Total					120.5

Wan Chai East PTW - Production Shaft (construction of lower shaft)(Dec 2009 - Mar 2010)

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Crawler Drill*		1			
Dump Truck	CNP 067	2	117.0	85.0%	119.3
Generator	CNP 101	2	108.0	85.0%	110.3
Hydraulic Breaker*		1			
Ventilation Fan	!	2	85.0	100.0%	88.0
Mobile Crane	CNP 048	1	112.0	85.0%	111.3
Air Compressor	CNP 001	1	109.0	85.0%	108.3
Circular Saw	CNP 201	1	108.0	85.0%	107.3
Concrete Pump Truck	CNP 047	2	109.0	85.0%	111.3
Concrete Lorry Mixer	CNP 044	2	109.0	85.0%	111.3
Pokers	CNP 170	1	113.0	85.0%	112.3
Total					122.2

Wan Chai EaST PTW - Production Shaft (tunnel construction)(Apr 2010 - Sep 2013)

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Gantry	***	1	95.0	85.0%	94.3
Generator*		2			
Air compressor*		1			
Conveyor belt*		2			
Ventilation fan	!	1	85.0	100.0%	85.0
Mortar plant	CNP 022	1	108.0	85.0%	107.3
Mortar pump	CNP 047	1	109.0	85.0%	108.3
Water Pump*		2			
Diesel Train*		1			
Mortar car*		1			
TBM*		1			
Total					110.9

* Underground plant

** Reference form East Rail Extension

*** Reference form KCRC KSL 100 EIA

@ Reference from Hong Kong West Drainage Tunnel EIA (Final)

! Good Practices on Vent. System Noise Control (EPD April 2006)

Powered Mechanical Equipment (PME) for the Different Construction Tasks during Normal Daytime Working Hours (With Mitigation Measures)

PME for SCS Construction

Major Construction Equipment for Fung Mat Road

Fung Mat Road - Production Shaft / Drop Shaft (construction of upper shaft, Diaphragm wall at shaft)(Feb 2009 - Oct 2009)

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Acoustic Mat / Barrier	Total SWL dB(A)
Mobile Crane#	Table C7/114	1	101.0	85.0%	0.0	100.3
Lorry#	Table C9/19	2	102.0	85.0%	0.0	104.3
Concrete Lorry Mixer	CNP 044	2	109.0	85.0%	0.0	111.3
Concrete Pump Truck# ^^	Table C6/36	1	106.0	85.0%	5.0	100.3
Excavator# ^^	Table C3/97	1	105.0	85.0%	5.0	99.3
Chisel^	CNP I64	1	115.0	85.0%	5.0	109.3
Total						114.4

Fung Mat Road - Production Shaft / Drop Shaft (construction of upper shaft, Excavation at shaft)(Nov 2009 - Dec 2009)

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Acoustic Mat / Barrier	Total SWL dB(A)
Excavator# ^^	Table C3/97	1	105.0	85.0%	5.0	99.3
Mobile Crane#	Table C7/114	1	101.0	85.0%	0.0	100.3
Dump Truck#	Table C9/27	2	105.0	85.0%	0.0	107.3
Welding Machine^^	**	1	100.0	85.0%	5.0	94.3
Mini Excavator^^	CNP 081	1	94.0	85.0%	5.0	88.3
Total						108.8

Fung Mat Road - Production Shaft / Drop Shaft (Construction of lower shaft)(Jan 2010 - Feb 2010)

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Acoustic Mat / Barrier	Total SWL dB(A)
Crawler Drill*		1				
Dump Truck#	Table C9/27	2	105.0	85.0%	0.0	107.3
Generator^^	CNP 101	2	108.0	85.0%	10.0	100.3
Hydraulic Breaker*		1				
Ventilation Fan	!	4	85.0	100.0%	0.0	91.0
Mobile Crane#	Table C7/114	1	101.0	85.0%	0.0	100.3
Air Compressor^^	CNP 002	1	100.0	85.0%	10.0	89.3
Circular Saw# ^^	Table C7/78	1	106.0	85.0%	5.0	100.3
Concrete Pump Truck# ^^	Table C6/36	2	106.0	85.0%	5.0	103.3
Concrete Lorry Mixer	CNP 044	2	109.0	85.0%	0.0	111.3
Pokers# ^^	Table C6/32	1	100.0	85.0%	5.0	94.3
Total						113.9

Fung Mat Road - Production Shaft / Drop Shaft Tunnel Construction (Feb 2012 - Feb 2013)

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Acoustic Mat / Barrier	Total SWL dB(A)
Gantry***		1	95.0	85.0%	5.0	89.3
Generator*		2				
Air compressor*		1				
Conveyor belt*		2				
Ventilation fan	!	1	85.0	100.0%	0.0	85.0
Mortar plant^^	CNP 022	1	108.0	85.0%	5.0	102.3
Mortar pump	CNP 047	1	109.0	85.0%	5.0	103.3
Water Pump*		2				
Diesel Train*		1				
Mortar car*		1				
TBM*		1				
Total						106.0

QPME ^ Acoustic mat
 ^^ Barrier * Underground plant
 ** East Rail Extension
 *** KCRC KSL 100 EIA
 @ H K West
 Drainage Tunnel EIA (Final)
 ! Good Practices on Vent. System
 Noise Control (EPD April 2006)

Fung Mat Road - Production Shaft / Drop Shaft (Conversion to Drop Shaft - Finishing Works (Mar 2013 - Sep 2013)

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Acoustic Mat / Barrier	Total SWL dB(A)
Generator^^	CNP 101	2	108.0	85.0%	10.0	100.3
Crane Lorry#	Table C7/101	1	94.0	85.0%	0.0	93.3
Mobile Crane#	Table C7/114	1	101.0	85.0%	0.0	100.3
Air Compressor^^	CNP 002	2	100.0	85.0%	10.0	92.3
Circular Saw# ^^	Table C7/78	1	106.0	85.0%	5.0	100.3
Concrete Pump Truck# ^^	Table C6/36	2	106.0	85.0%	5.0	103.3
Lorry#	Table C9/19	2	102.0	85.0%	0.0	104.3
Total						109.3

Fung Mat Road - Production Shaft / Riser Shaft (construction of upper shaft, Diaphragm wall at shaft)(June 2009 - Feb 2010)

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Acoustic Mat / Barrier	Total SWL dB(A)
Mobile Crane#	Table C7/114	1	101.0	85.0%	0.0	100.3
Lorry#	Table C9/19	2	102.0	85.0%	0.0	104.3
Concrete Lorry Mixer	CNP 044	2	109.0	85.0%	0.0	111.3
Concrete Pump Truck# ^^	Table C6/36	1	106.0	85.0%	5.0	100.3
Excavator# ^^	Table C3/97	1	105.0	85.0%	5.0	99.3
Chisel^	CNP 164	1	115.0	85.0%	5.0	109.3
Total						114.4

Fung Mat Road - Production Shaft / Riser Shaft (construction of upper shaft, Excavation at shaft)(Mar 2010 - Apr 2010)

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Acoustic Mat / Barrier	Total SWL dB(A)
Excavator# ^^	Table C3/97	1	105.0	85.0%	5.0	99.3
Mobile Crane#	Table C7/114	1	101.0	85.0%	0.0	100.3
Dump Truck#	Table C9/27	2	105.0	85.0%	0.0	107.3
Welding Machine^^	**	1	100.0	85.0%	5.0	94.3
Mini Excavator^^	CNP 081	1	94.0	85.0%	5.0	88.3
Total						108.8

Fung Mat Road - Production Shaft / Riser Shaft (Construction of lower shaft)(May 2010 - June 2010)

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Acoustic Mat / Barrier	Total SWL dB(A)
Crawler Drill*		1				
Dump Truck#	Table C9/27	2	105.0	85.0%	0.0	107.3
Generator^^	CNP 101	2	108.0	85.0%	10.0	100.3
Hydraulic Breaker*		1				
Ventilation Fan	!	2	85.0	100.0%	0.0	88.0
Mobile Crane#	Table C7/114	1	101.0	85.0%	0.0	100.3
Air Compressor^^	CNP 002	1	100.0	85.0%	10.0	89.3
Circular Saw# ^^	Table C7/78	1	106.0	85.0%	5.0	100.3
Concrete Pump Truck# ^^	Table C6/36	2	106.0	85.0%	5.0	103.3
Concrete Lorry Mixer	CNP 044	2	109.0	85.0%	0.0	111.3
Pokers# ^^	Table C6/32	1	100.0	85.0%	5.0	94.3
Total						113.9

Fung Mat Road - Production Shaft / Riser Shaft Tunnel Construction (July 2010 - Feb 2013)

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Acoustic Mat / Barrier	Total SWL dB(A)
Gantry***		1	95.0	85.0%	5.0	89.3
Generator*		2				
Air compressor*		1				
Conveyor belt*		2				
Ventilation fan	!	4	85.0	100.0%	0.0	91.0
Mortar plant^^	CNP 022	1	108.0	85.0%	5.0	102.3
Mortar pump	CNP 047	1	109.0	85.0%	5.0	103.3
Water Pump*		2				
Diesel Train*		1				
Mortar car*		1				
TBM*		1				
Total						106.1

- # QPME ^ Acoustic mat
- ^^ Barrier * Underground plant
- ** East Rail Extension
- *** KCRC KSL 100 EIA
- @ H K West
- Drainage Tunnel EIA (Final)
- ! Good Practices on Vent. System Noise Control (EPD April 2006)

Fung Mat Road - Production Shaft / Riser Shaft (Conversion to Riser Shaft - Finishing Works (Mar 2013 - Sep 2013)

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Generator	CNP 101	2	108.0	85.0%	110.3
Crane Lorry	CNP 048	1	112.0	85.0%	111.3
Mobile Crane	CNP 048	1	112.0	85.0%	111.3
Air Compressor	CNP 001	2	109.0	85.0%	111.3
Circular Saw	CNP 201	1	108.0	85.0%	107.3
Concrete Pump Truck	CNP 047	2	109.0	85.0%	111.3
Lorry	CNP 141	2	112.0	85.0%	114.3
Total					119.9

Construction of Ramp and Tipping Hall for Barging Facilities

Feb 2009 - Jul 2009 (For Production Shaft / Drop Shaft)

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Excavator	CNP 081	1	112.0	85.0%	111.3
Dump Truck	CNP 067	2	117.0	85.0%	119.3
Roller	CNP 185	1	108.0	85.0%	107.3
Mobile Crane	CNP048	1	112.0	85.0%	111.3
Welding Machine	**	2	100.0	85.0%	102.3
Generator	CNP101	1	108.0	85.0%	107.3
Total					121.0

Barging Activities (Aug 2009 - Feb 2013) (For Production Shaft / Drop Shaft)

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Derrick barge	CNP 061	1	104.0	85.0%	103.3
Dump Truck	CNP 067	2	117.0	85.0%	119.3
Total					119.4

Construction of Ramp and Tipping Hall for Barging Facilities

Jun 2009 - Nov 2009 (For Production Shaft / Riser Shaft)

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Excavator	CNP 081	1	112.0	85.0%	111.3
Dump Truck	CNP 067	2	117.0	85.0%	119.3
Roller	CNP 185	1	108.0	85.0%	107.3
Mobile Crane	CNP048	1	112.0	85.0%	111.3
Welding Machine	**	2	100.0	85.0%	102.3
Generator	CNP101	1	108.0	85.0%	107.3
Total					121.0

Barging Activities (Dec 2009 - Feb 2013) (For Production Shaft / Riser Shaft)

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Derrick barge	CNP 061	1	104.0	85.0%	103.3
Dump Truck	CNP 067	2	117.0	85.0%	119.3
Total					119.4

* Underground plant

** Reference form East Rail Extension

*** Reference form KCRC KSL 100 EIA

@ Reference from Hong Kong West Drainage Tunnel EIA (Final)

! Good Practices on Vent. System Noise Control (EPD April 2006)

Powered Mechanical Equipment (PME) for the Different Construction Tasks during Normal Daytime Working Hours (Without Mitigation Measures)

PME for SCS Construction

Major Construction Equipment for Central

Central PTW - Drop Shaft (construction of upper shaft, Diaphragm wall at shaft)(Feb 2009 - Oct 2009)

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Mobile Crane	CNP 048	1	112.0	85.0%	111.3
Lorry	CNP 141	2	112.0	85.0%	114.3
Concrete Lorry Mixer	CNP 044	2	109.0	85.0%	111.3
Concrete Pump Truck	CNP 047	1	109.0	85.0%	108.3
Excavator	CNP 081	1	112.0	85.0%	111.3
Chisel	CNP 164	1	115.0	85.0%	114.3
Total					120.0

Central PTW - Drop Shaft (construction of upper shaft, Excavation at shaft)(Nov 2009 - Jan 2010)

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Excavator	CNP 081	1	112.0	85.0%	111.3
Mobile Crane	CNP 048	1	112.0	85.0%	111.3
Dump Truck	CNP067	2	117.0	85.0%	119.3
Welding Machine	**	1	100.0	85.0%	99.3
Mini Excavator	CNP 081	1	94.0	85.0%	93.3
Total					120.5

Central PTW - Drop Shaft (Construction of lower shaft)(Feb 2010 - Aug 2010)

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Crawler Drill*		1			
Dump Truck	CNP 067	2	117.0	85.0%	119.3
Generator	CNP 101	2	108.0	85.0%	110.3
Hydraulic Breaker*		1			
Ventilation Fan	!	2	85.0	100.0%	88.0
Mobile Crane	CNP 048	1	112.0	85.0%	111.3
Air Compressor	CNP 001	1	109.0	85.0%	108.3
Circular Saw	CNP 201	1	108.0	85.0%	107.3
Concrete Pump Truck	CNP 047	2	109.0	85.0%	111.3
Concrete Lorry Mixer	CNP 044	2	109.0	85.0%	111.3
Pokers	CNP 170	1	113.0	85.0%	112.3
Total					122.2

Central PTW - Drop Shaft Finishing Works(Oct 2012 - Jun 2013)(Phase 3)

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Generator	CNP 101	2	108.0	85.0%	110.3
Crane Lorry	CNP 048	1	112.0	85.0%	111.3
Mobile Crane	CNP 048	1	112.0	85.0%	111.3
Air Compressor	CNP 001	2	109.0	85.0%	111.3
Circular Saw	CNP 201	1	108.0	85.0%	107.3
Concrete Pump Truck	CNP 047	2	109.0	85.0%	111.3
Lorry	CNP 141	2	112.0	85.0%	114.3
Total					119.9

* Underground plant

** Reference form East Rail Extension

*** Reference form KCRC KSL 100 EIA

@ Reference from Hong Kong West Drainage Tunnel EIA (Final)

! Good Practices on Vent. System Noise Control (EPD April 2006)

Powered Mechanical Equipment (PME) for the Different Construction Tasks during Normal Daytime Working Hours (Without Mitigation Measures)

PME for SCS Construction

Major Construction Equipment for Sandy Bay

Sandy Bay PTW - Production Shaft / Drop / Riser Shaft (construction of upper shaft, Diaphragm wall at shaft)(Jun 2009 - Dec 2009)

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Mobile Crane	CNP 048	1	112.0	85.0%	111.3
Lorry	CNP 141	2	112.0	85.0%	114.3
Concrete Lorry Mixer	CNP 044	2	109.0	85.0%	111.3
Concrete Pump Truck	CNP 047	1	109.0	85.0%	108.3
Excavator	CNP 081	1	112.0	85.0%	111.3
Chisel	CNP 164	1	115.0	85.0%	114.3
Total					120.0

Sandy Bay PTW - Production Shaft / Drop / Riser Shaft (construction of upper shaft, Excavation at shaft)(Jan 2010 - Feb 2010)

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Excavator	CNP 081	1	112.0	85.0%	111.3
Mobile Crane	CNP 048	1	112.0	85.0%	111.3
Dump Truck	CNP067	2	117.0	85.0%	119.3
Welding Machine	**	1	100.0	85.0%	99.3
Mini Excavator	BS TableC3 10	1	97.0	85.0%	96.3
Total					120.5

Sandy Bay PTW - Production Shaft / Drop / Riser Shaft (Construction of lower shaft)(Mar 2010 - May 2010)

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Crawler Drill	*	1			
Dump Truck	CNP 067	2	117.0	85.0%	119.3
Generator	CNP 101	2	108.0	85.0%	110.3
Hydraulic Breaker	*	1			
Ventilation Fan	!	4	85.0	100.0%	91.0
Mobile Crane	CNP 048	1	112.0	85.0%	111.3
Air Compressor	CNP 001	1	109.0	85.0%	108.3
Circular Saw	CNP 201	1	108.0	85.0%	107.3
Concrete Pump Truck	CNP 047	2	109.0	85.0%	111.3
Concrete Lorry Mixer	CNP 044	2	109.0	85.0%	111.3
Pokers	CNP 170	1	113.0	85.0%	112.3
Total					122.2

Sandy Bay PTW - Production Shaft / Drop / Riser Shaft (Tunnel Construction)(Jun 2010 - Dec 2012)

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Gantry	***	1	95.0	85.0%	94.3
Generator*	*	2			
Air compressor*	*	1			
Conveyor belt*	*	2			
Ventilation fan	!	4	85.0	100.0%	91.0
Mortar plant	CNP 022	1	108.0	85.0%	107.3
Mortar pump	CNP 047	1	109.0	85.0%	108.3
Water Pump*	*	2			
Diesel Train*	*	1			
Mortar car*	*	1			
TBM*	*	1			
Total					111.0

* Underground plant

** Reference form East Rail Extension

*** Reference form KCRC KSL 100 EIA

@ Reference from Hong Kong West Drainage Tunnel EIA (Final)

! Good Practices on Vent. System Noise Control (EPD April 2006)

Sandy Bay PTW - Production Shaft / Drop / Riser Shaft (Conversion to Drop / Riser Shaft - Finishing Works (Jan 2013 - Sep 2013))

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Generator	CNP 101	2	108.0	85.0%	110.3
Crane Lorry	CNP 048	1	112.0	85.0%	111.3
Mobile Crane	CNP 048	1	112.0	85.0%	111.3
Air Compressor	CNP 001	2	109.0	85.0%	111.3
Circular Saw	CNP 201	1	108.0	85.0%	107.3
Concrete Pump Truck	CNP 047	2	109.0	85.0%	111.3
Lorry	CNP 141	2	112.0	85.0%	114.3
Total					119.9

Sandy Bay PTW - Production Shaft (construction of upper shaft, Diaphragm wall at shaft)(Jun 2009 - Dec 2009)

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Mobile Crane	CNP 048	1	112.0	85.0%	111.3
Lorry	CNP 141	2	112.0	85.0%	114.3
Concrete Lorry Mixer	CNP 044	2	109.0	85.0%	111.3
Concrete Pump Truck	CNP 047	1	109.0	85.0%	108.3
Excavator	CNP 081	1	112.0	85.0%	111.3
Chisel	CNP 164	1	115.0	85.0%	114.3
Total					120.0

Sandy Bay PTW - Production Shaft (construction of upper shaft, Excavation at shaft)(Jan 2010 - Feb 2010)

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Excavator	CNP 081	1	112.0	85.0%	111.3
Mobile Crane	CNP 048	1	112.0	85.0%	111.3
Dump Truck	CNP 067	2	117.0	85.0%	119.3
Welding Machine	**	1	100.0	85.0%	99.3
Mini Excavator	BS TableC3 10	1	97.0	85.0%	96.3
Total					120.5

Sandy Bay PTW - Production Shaft (construction of lower shaft)(Mar 2010 - May 2010)

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Crawler Drill	*	1			
Dump Truck	CNP 067	2	117.0	85.0%	119.3
Generator	CNP 101	2	108.0	85.0%	110.3
Hydraulic Breaker	*	1			
Ventilation Fan	!	4	85.0	100.0%	91.0
Mobile Crane	CNP 048	1	112.0	85.0%	111.3
Air Compressor	CNP 001	1	109.0	85.0%	108.3
Circular Saw	CNP 201	1	108.0	85.0%	107.3
Concrete Pump Truck	CNP 047	2	109.0	85.0%	111.3
Concrete Lorry Mixer	CNP 044	2	109.0	85.0%	111.3
Pokers	CNP 170	1	113.0	85.0%	112.3
Total					122.2

Sandy Bay PTW - Production Shaft (tunnel construction)(Jun 2010 - Sep 2013)

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Gantry	***	1	95.0	85.0%	94.3
Generator*	*	2			
Air compressor*	*	1			
Conveyor belt*	*	2			
Ventilation fan	!	4	85.0	100.0%	91.0
Mortar plant	CNP 022	1	108.0	85.0%	107.3
Mortar pump	CNP 047	1	109.0	85.0%	108.3
Water Pump*	*	2			
Diesel Train*	*	1			
Mortar car*	*	1			
TBM*	*	1			
Total					111.0

* Underground plant

** Reference form East Rail Extension

*** Reference form KCRC KSL 100 EIA

@ Reference from Hong Kong West Drainage Tunnel EIA (Final)

! Good Practices on Vent. System Noise Control (EPD April 2006)

Powered Mechanical Equipment (PME) for the Different Construction Tasks during Normal Daytime Working Hours (Without Mitigation Measures)

PME for SCS Construction

Major Construction Equipment for Cyberport

Cyberport PTW - Production Shaft / Drop / Riser Shaft (construction of upper shaft, Install pipe pile wall)(Jun 2009 - Dec 2009)

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Pipe pile rig	CNP 166	1	100.0	85.0%	99.3
Air compressor	CNP 001	1	109.0	85.0%	108.3
Generator	CNP 101	1	108.0	85.0%	107.3
Water pump	CNP 281	1	88.0	85.0%	87.3
Filtering plant / desander	CNP 105	1	105.0	85.0%	104.3
Crawler Crane	CNP 048	1	112.0	85.0%	111.3
Total					114.7

Cyberport PTW - Production Shaft / Drop / Riser Shaft (construction of upper shaft, Excavation at shaft)(Jan 2010 - Feb 2010)

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Excavator	CNP 081	1	112.0	85.0%	111.3
Mobile Crane	CNP 048	1	112.0	85.0%	111.3
Dump Truck	CNP067	2	117.0	85.0%	119.3
Welding Machine	**	1	100.0	85.0%	99.3
Mini Excavator	BS TableC3 108	1	97.0	85.0%	96.3
Total					120.5

Cyberport PTW - Production Shaft / Drop / Riser Shaft (Construction of lower shaft)(Mar 2010 - Jun 2010)

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Crawler Drill*		1			
Dump Truck	CNP 067	2	117.0	85.0%	119.3
Generator	CNP 101	2	108.0	85.0%	110.3
Hydraulic Breaker*		1			
Ventilation Fan	!	4	85.0	100.0%	91.0
Mobile Crane	CNP 048	1	112.0	85.0%	111.3
Air Compressor	CNP 001	1	109.0	85.0%	108.3
Circular Saw	CNP 201	1	108.0	85.0%	107.3
Concrete Pump Truck	CNP 047	2	109.0	85.0%	111.3
Concrete Lorry Mixer	CNP 044	2	109.0	85.0%	111.3
Pokers	CNP 170	1	113.0	85.0%	112.3
Total					122.2

Cyberport PTW - Production Shaft / Drop / Riser Shaft (Tunnel Construction)(July 2010 - Dec 2012)

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Gantry	***	1	95.0	85.0%	94.3
Generator*	*	2			
Air compressor*	*	1			
Conveyor belt*	*	2			
Ventilation fan	!	4	85.0	100.0%	91.0
Mortar plant	CNP 022	1	108.0	85.0%	107.3
Mortar pump	CNP 047	1	109.0	85.0%	108.3
Water Pump*	*	2			
Diesel Train*	*	1			
Mortar car*	*	1			
TBM*	*	1			
Total					111.0

* Underground plant

** Reference form East Rail Extension

*** Reference form KCRC KSL 100 EIA

@ Reference from Hong Kong West Drainage Tunnel EIA (Final)

! Good Practices on Vent. System Noise Control (EPD April 2006)

Cyberport PTW - Protection Shaft / Drop / Riser Shaft (Conversion to Drop / Riser Shaft - Finishing Works(Jan 2013 - Sep 2013))

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Generator	CNP 101	2	108.0	85.0%	110.3
Crane Lorry	CNP 048	1	112.0	85.0%	111.3
Mobile Crane	CNP 048	1	112.0	85.0%	111.3
Air Compressor	CNP 001	2	109.0	85.0%	111.3
Circular Saw	CNP 201	1	108.0	85.0%	107.3
Concrete Pump Truck	CNP 047	2	109.0	85.0%	111.3
Lorry	CNP 141	2	112.0	85.0%	114.3
				Total	119.9

- * Underground plant
- ** Reference form East Rail Extension
- *** Reference form KCRC KSL 100 EIA
- @ Reference from Hong Kong West
Drainage Tunnel EIA (Final)
- ! Good Practices on Vent. System
Noise Control (EPD April 2006)

Powered Mechanical Equipment (PME) for the Different Construction Tasks during Normal Daytime Working Hours (Without Mitigation Measures)

PME for SCS Construction

Major Construction Equipment for Wah Fu

Wah Fu PTW - Drop Shaft (construction of upper shaft, Diaphragm wall at shaft)(Jun 2009 - Nov 2009)

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Mobile Crane	CNP 048	1	112.0	85.0%	111.3
Lorry	CNP 141	2	112.0	85.0%	114.3
Concrete Lorry Mixer	CNP 044	2	109.0	85.0%	111.3
Concrete Pump Truck	CNP 047	1	109.0	85.0%	108.3
Excavator	CNP 081	1	112.0	85.0%	111.3
Chisel	CNP 164	1	115.0	85.0%	114.3
Total					120.0

Wah Fu PTW - Drop Shaft (construction of upper shaft, Excavation at shaft)(Dec 2009)

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Excavator	CNP 081	1	112.0	85.0%	111.3
Mobile Crane	CNP 048	1	112.0	85.0%	111.3
Dump Truck	CNP067	2	117.0	85.0%	119.3
Welding Machine	**	1	100.0	85.0%	99.3
Mini Excavator	CNP 081	1	94.0	85.0%	93.3
Total					120.5

Wah Fu PTW - Drop Shaft (Construction of lower shaft)(Jan 2010 - Feb 2010)

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Raise Boring Machine	CNP 166	1	100.0	85.0%	99.3
Generator	CNP 101	1	108.0	85.0%	107.3
Sedimentation Tank		1			
Grout Mixer	CNP 045	1	96.0	85.0%	95.3
Grout Pump	CNP 047	1	109.0	85.0%	108.3
Mobile Crane	CNP 048	1	112.0	85.0%	111.3
Concrete Pump Truck	CNP 047	1	109.0	85.0%	108.3
Concrete Lorry Mixer	CNP 044	1	109.0	85.0%	108.3
Pokers	CNP 170	1	113.0	85.0%	112.3
Total					117.6

Wah Fu PTW - Drop Shaft Finishing Works(Sep 2012 - Jun 2013)(Phase 3)

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Generator	CNP 101	2	108.0	85.0%	110.3
Crane Lorry	CNP 048	1	112.0	85.0%	111.3
Mobile Crane	CNP 048	1	112.0	85.0%	111.3
Air Compressor	CNP 001	2	109.0	85.0%	111.3
Circular Saw	CNP 201	1	108.0	85.0%	107.3
Concrete Pump Truck	CNP 047	2	109.0	85.0%	111.3
Lorry	CNP 141	2	112.0	85.0%	114.3
Total					119.9

- * Underground plant
- ** Reference form East Rail Extension
- *** Reference form KCRC KSL 100 EIA
- @ Reference from Hong Kong West Drainage Tunnel EIA (Final)
- ! Good Practices on Vent. System Noise Control (EPD April 2006)

Powered Mechanical Equipment (PME) for the Different Construction Tasks during Normal Daytime Working Hours (Without Mitigation Measures)

PME for SCS Construction

Major Construction Equipment for Aberdeen

Aberdeen PTW - Drop Shaft (construction of upper shaft, Diaphragm wall at shaft)(Jun 2009 - Dec 2009)

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Mobile Crane	CNP 048	1	112.0	85.0%	111.3
Lorry	CNP 141	2	112.0	85.0%	114.3
Concrete Lorry Mixer	CNP 044	2	109.0	85.0%	111.3
Concrete Pump Truck	CNP 047	1	109.0	85.0%	108.3
Excavator	CNP 081	1	112.0	85.0%	111.3
Chisel	CNP 164	1	115.0	85.0%	114.3
Total					120.0

Aberdeen PTW - Drop Shaft (construction of upper shaft, Excavation at shaft)(Jan 2010 - Feb 2010)

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Excavator	CNP 081	1	112.0	85.0%	111.3
Mobile Crane	CNP 048	1	112.0	85.0%	111.3
Dump Truck	CNP067	2	117.0	85.0%	119.3
Welding Machine	**	1	100.0	85.0%	99.3
Mini Excavator	BS TableC3 108	1	97.0	85.0%	96.3
Total					120.5

Aberdeen PTW - Drop Shaft (Construction of lower shaft)(Mar 2010 - May 2010)

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Raise Boring Machine		1			
Generator	CNP 101	1	108.0	85.0%	107.3
Sedimentation Tank		1			
Grout Mixer	CNP 045	1	96.0	85.0%	95.3
Grout Pump	CNP 047	1	109.0	85.0%	108.3
Mobile Crane	CNP 048	1	112.0	85.0%	111.3
Concrete Pump Truck	CNP 047	1	109.0	85.0%	108.3
Concrete Lorry Mixer	CNP 044	1	109.0	85.0%	108.3
Pokers	CNP 170	1	113.0	85.0%	112.3
Total					117.0

Aberdeen PTW - Drop Shaft Finishing Works(Jan 2013 - Sep 2013)(Phase 3)

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Generator	CNP 101	2	108.0	85.0%	110.3
Crane Lorry	CNP 048	1	112.0	85.0%	111.3
Mobile Crane	CNP 048	1	112.0	85.0%	111.3
Air Compressor	CNP 001	2	109.0	85.0%	111.3
Circular Saw	CNP 201	1	108.0	85.0%	107.3
Concrete Pump Truck	CNP 047	2	109.0	85.0%	111.3
Lorry	CNP 141	2	112.0	85.0%	114.3
Total					119.9

- * Underground plant
- ** Reference form East Rail Extension
- *** Reference form KCRC KSL 100 EIA
- @ Reference from Hong Kong West Drainage Tunnel EIA (Final)
- ! Good Practices on Vent. System Noise Control (EPD April 2006)

Aberdeen PTW - HDD at Drop Shaft for Tunnel Q Construction (June 2009 - Sep 2013)

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Drill Rig. Rotary Type	CNP 072	2	110.0	85.0%	112.3
Total					112.3

Aberdeen PTW - Production Shaft (construction of upper shaft, Diaphragm wall at shaft)(Jun 2009 - Oct 2009)

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Mobile Crane	CNP 048	1	112.0	85.0%	111.3
Lorry	CNP 141	2	112.0	85.0%	114.3
Concrete Lorry Mixer	CNP 044	2	109.0	85.0%	111.3
Concrete Pump Truck	CNP 047	1	109.0	85.0%	108.3
Excavator	CNP 081	1	112.0	85.0%	111.3
Chisel	CNP 164	1	115.0	85.0%	114.3
Total					120.0

Aberdeen PTW - Production Shaft (construction of upper shaft, Excavation at shaft)(Nov 2009 - Dec 2009)

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Excavator	CNP 081	1	112.0	85.0%	111.3
Mobile Crane	CNP 048	1	112.0	85.0%	111.3
Dump Truck	CNP 067	2	117.0	85.0%	119.3
Welding Machine	**	1	100.0	85.0%	99.3
Mini Excavator	BS TableC3 108	1	97.0	85.0%	96.3
Total					120.5

Aberdeen PTW - Production Shaft (construction of lower shaft)(Jan 2010 - Feb 2010)

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Backhoes	CNP 081	1	112.0	85.0%	111.3
Breaker	CNP 023	1	117.0	85.0%	116.3
Dump Trucks	CNP 067	1	117.0	85.0%	116.3
Air Compressor	CNP 001	1	109.0	85.0%	108.3
Drilling	CNP 064	1	103.0	85.0%	102.3
Grout Mixer	CNP 045	1	96.0	85.0%	95.3
Grout Pump	CNP 047	1	109.0	85.0%	108.3
Conveyor Belt	CNP 041	1	90.0	85.0%	89.3
Total					120.6

Aberdeen PTW - Production Shaft (tunnel construction)(Mar 2010 - Sep 2013)

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Gantry	***	1	95.0	85.0%	94.3
Generator	*	2			
Air compressor	*	1			
Conveyor belt	*	2			
Ventilation fan	!	4	85.0	100.0%	91.0
Mortar plant	CNP 022	1	108.0	85.0%	107.3
Mortar pump	CNP 047	1	109.0	85.0%	108.3
Water Pump	*	2			
Diesel Train	*	1			
Mortar car	*	1			
TBM	*	1			
Total					111.0

* Underground plant

** Reference form East Rail Extension

*** Reference form KCRC KSL 100 EIA

@ Reference from Hong Kong West Drainage Tunnel EIA (Final)

! Good Practices on Vent. System

Noise Control (EPD April 2006)

Powered Mechanical Equipment (PME) for the Different Construction Tasks during Normal Daytime Working Hours (Without Mitigation Measures)

PME for SCS Construction

Major Construction Equipment for Ap Lei Chau

Ap Lei Chau PTW - Drop Shaft (construction of upper shaft, Install pipe pile wall)(Jun 2009 - Dec 2009)

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Pipe pile rig	CNP 166	1	100.0	85.0%	99.3
Air compressor	CNP 001	1	109.0	85.0%	108.3
Generator	CNP 101	1	108.0	85.0%	107.3
Water pump	CNP 281	1	88.0	85.0%	87.3
Filtering plant / desander	CNP 162	1	105.0	85.0%	104.3
Crawler Crane	CNP 048	1	112.0	85.0%	111.3
Total					114.7

Ap Lei Chau PTW - Drop Shaft (construction of upper shaft, Excavation at shaft)(Jan 2010 - Mar 2010)

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Excavator	CNP 081	1	112.0	85.0%	111.3
Mobile Crane	CNP 048	1	112.0	85.0%	111.3
Dump Truck	CNP067	2	117.0	85.0%	119.3
Welding Machine	**	1	100.0	85.0%	99.3
Mini Excavator	CNP 081	1	94.0	85.0%	93.3
Total					120.5

Ap Lei Chau PTW - Drop Shaft (Construction of lower shaft)(Apr 2010 - Sep 2013)

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Backhoes	CNP 081	1	112.0	85.0%	111.3
Breaker	CNP 023	1	117.0	85.0%	116.3
Dump Trucks	CNP 067	1	117.0	85.0%	116.3
Air Compressor	CNP 001	1	109.0	85.0%	108.3
Drilling	CNP 064	1	103.0	85.0%	102.3
Grout Mixer	CNP 045	1	96.0	85.0%	95.3
Grout Pump	CNP 047	1	109.0	85.0%	108.3
Conveyor Belt	CNP 041	1	90.0	85.0%	89.3
Total					120.6

Ap Lei Chau - Drop Shaft Finishing Works(Apr 2013 - Sep 2013)

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Generator	CNP 101	2	108.0	85.0%	110.3
Crane Lorry	CNP 048	1	112.0	85.0%	111.3
Mobile Crane	CNP 048	1	112.0	85.0%	111.3
Air Compressor	CNP 001	2	109.0	85.0%	111.3
Circular Saw	CNP 201	1	108.0	85.0%	107.3
Concrete Pump Truck	CNP 047	2	109.0	85.0%	111.3
Lorry	CNP 141	2	112.0	85.0%	114.3
Total					119.9

* Underground plant

** Reference form East Rail Extension

*** Reference form KCRC KSL 100 EIA

@ Reference from Hong Kong West Drainage Tunnel EIA (Final)

! Good Practices on Vent. System Noise Control (EPD April 2006)

Powered Mechanical Equipment (PME) for the Different Construction Tasks during Normal Daytime Working Hours (Without Mitigation Measures)

PME for SCS Construction

Major Construction Equipment for SCISTW

SCISTW - Riser Shaft (construction of upper shaft, Diaphragm wall at shaft)(Feb 2009 - Jan 2011)

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Mobile Crane	CNP 048	1	112.0	85.0%	111.3
Lorry	CNP 141	2	112.0	85.0%	114.3
Concrete Lorry Mixer	CNP 044	2	109.0	85.0%	111.3
Concrete Pump Truck	CNP 047	1	109.0	85.0%	108.3
Excavator	CNP 081	1	112.0	85.0%	111.3
Chisel	CNP 164	1	115.0	85.0%	114.3
Total					120.0

SCISTW - Riser Shaft (construction of upper shaft, Excavation at shaft)(Feb 2011 - Sep 2011)

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Excavator	CNP 081	1	112.0	85.0%	111.3
Mobile Crane	CNP 048	1	112.0	85.0%	111.3
Dump Truck	CNP067	2	117.0	85.0%	119.3
Welding Machine	**	1	100.0	85.0%	99.3
Mini Excavator	BS TableC3 103	1	97.0	85.0%	96.3
Total					120.5

SCISTW - Riser Shaft (Construction of lower shaft)(Oct 2011 - Aug 2012)

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Crawler Drill*		1		85.0%	
Dump Truck	CNP 067	2	117.0	85.0%	119.3
Generator	CNP 101	2	108.0	85.0%	110.3
Hydraulic Breaker*		1		85.0%	
Ventilation Fan	!	2	85.0	100.0%	88.0
Mobile Crane	CNP 048	1	112.0	85.0%	111.3
Air Compressor	CNP 001	1	109.0	85.0%	108.3
Circular Saw	CNP 201	1	108.0	85.0%	107.3
Concrete Pump Truck	CNP 047	2	109.0	85.0%	111.3
Concrete Lorry Mixer	CNP 044	2	109.0	85.0%	111.3
Pokers	CNP 170	1	113.0	85.0%	112.3
Total					122.2

SCISTW - Riser Shaft Remaining Civil Works(Sep 2012 - Sep 2013)

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Generator	CNP 101	2	108.0	85.0%	110.3
Crane Lorry	CNP 048	1	112.0	85.0%	111.3
Mobile Crane	CNP 048	1	112.0	85.0%	111.3
Air Compressor	CNP 001	2	109.0	85.0%	111.3
Circular Saw	CNP 201	1	108.0	85.0%	107.3
Concrete Pump Truck	CNP 047	2	109.0	85.0%	111.3
Lorry	CNP 141	2	112.0	85.0%	114.3
Total					119.9

SCISTW - Production Shaft (construction of upper shaft, Diaphragm wall at shaft)(Feb 2009 - Aug 2009)

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Mobile Crane	CNP 048	1	112.0	85.0%	111.3
Lorry	CNP 141	2	112.0	85.0%	114.3
Concrete Lorry Mixer	CNP 044	2	109.0	85.0%	111.3
Concrete Pump Truck	CNP 047	1	109.0	85.0%	108.3
Excavator	CNP 081	1	112.0	85.0%	111.3
Chisel	CNP 164	1	115.0	85.0%	114.3
Total					120.0

* Underground plant

** Reference form East Rail Extension

*** Reference form KCRC KSL 100 EIA

@ Reference from Hong Kong West Drainage Tunnel EIA (Final)

! Good Practices on Vent. System Noise Control (EPD April 2006)

SCISTW - Production Shaft (construction of upper shaft, Excavation at shaft)(Sep 2009 - Oct 2009)

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Excavator	CNP 081	1	112.0	85.0%	111.3
Mobile Crane	CNP 048	1	112.0	85.0%	111.3
Dump Truck	CNP 067	2	117.0	85.0%	119.3
Welding Machine	**	1	100.0	85.0%	99.3
Mini Excavator	BS TableC3 104	1	97.0	85.0%	96.3
Total					120.5

SCISTW - Production Shaft (construction of lower shaft)(Nov 2009 - Jan 2010)

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Crawler Drill*		1		85.0%	
Dump Truck	CNP 067	2	117.0	85.0%	119.3
Generator	CNP 101	2	108.0	85.0%	110.3
Hydraulic Breaker*		1		85.0%	
Ventilation Fan	!	2	85.0	100.0%	88.0
Mobile Crane	CNP 048	1	112.0	85.0%	111.3
Air Compressor	CNP 001	1	109.0	85.0%	108.3
Circular Saw	CNP 201	1	108.0	85.0%	107.3
Concrete Pump Truck	CNP 047	2	109.0	85.0%	111.3
Concrete Lorry Mixer	CNP 044	2	109.0	85.0%	111.3
Pokers	CNP 170	1	113.0	85.0%	112.3
Total					122.2

SCISTW - Production Shaft (tunnel construction)(Feb 2010 - Sep 2013)

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Gantry	***	1	95.0	85.0%	94.3
Generator*		2			
Air compressor*		1			
Conveyor belt*		2			
Ventilation fan	!	1	85.0	100.0%	85.0
Mortar plant	CNP 022	1	108.0	85.0%	107.3
Mortar pump	CNP 047	1	109.0	85.0%	108.3
Water Pump*		2			
Diesel Train*		1			
Mortar car*		1			
TBM*		1			
Total					110.9

* Underground plant

** Reference form East Rail Extension

*** Reference form KCRC KSL 100 EIA

@ Reference from Hong Kong West Drainage Tunnel EIA (Final)

! Good Practices on Vent. System Noise Control (EPD April 2006)

Powered Mechanical Equipment (PME) for the Different Construction Tasks during Normal Daytime Working Hours (Without Mitigation Measures)

PME for the PTW Phase II upgrading works (Other than Wah Fu)

Piling (Socket H-piles)

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Mobile crane	CNP 048	2	112.0	70.0%	113.5
Auger	CNP 167	2	114.0	70.0%	115.5
Generator, standard	CNP 101	2	108.0	70.0%	109.5
Air Compressor	CNP 002	2	100.0	70.0%	101.5
Total					118.3

Excavation (shallow excavation with sheet piling)(Group 1)

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Vibrating hammer	CNP 172	2	115.0	70.0%	116.5
Total					116.5

Excavation (shallow excavation with sheet piling)(Group 2)

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Backhoe	CNP 081	2	112.0	70.0%	113.5
Breaker, excavator mounted (hydraulic)	CNP 028	2	122.0	70.0%	123.5
Total					123.9

Concreting

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Concrete lorry mixer	CNP 044	1	109.0	70.0%	107.5
Concrete pump, lorry mounted	CNP 047	1	109.0	70.0%	107.5
Poker, vibratory, hand-held	CNP 170	3	113.0	70.0%	116.2
Total					117.2

Demolition Works

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Backhoe	CNP 081	1	112.0	85.0%	111.3
Breaker, excavator mounted (hydraulic)	CNP 028	2	122.0	85.0%	124.3
Lorry	CNP 141	1	112.0	85.0%	111.3
Total					124.7

Roadwork

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Backhoe	CNP 081	1	112.0	85.0%	111.3
Lorry	CNP 141	1	112.0	85.0%	111.3
Roller	CNP 185	1	108.0	85.0%	107.3
Total					115.1

Powered Mechanical Equipment (PME) for the Different Construction Tasks during Normal Daytime Working Hours (Without Mitigation Measures)

PME for the PTW Phase II upgrading works (For Wah Fu Site)

Piling (Socket H-piles)

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Mobile crane	CNP 048	1	112.0	70.0%	110.5
Auger	CNP 167	1	114.0	70.0%	112.5
Generator, standard	CNP 101	1	108.0	70.0%	106.5
Air Compressor	CNP 002	1	100.0	70.0%	98.5
Total					115.3

Excavation (shallow excavation with sheet piling)(Group 1)

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Vibrating hammer	CNP 172	1	115.0	70.0%	113.5
Total					113.5

Excavation (shallow excavation with sheet piling)(Group 2)

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Backhoe	CNP 081	1	112.0	70.0%	110.5
Breaker, excavator mounted (hydraulic)	CNP 028	1	122.0	70.0%	120.5
Total					120.9

Concreting

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Concrete lorry mixer	CNP 044	1	109.0	70.0%	107.5
Concrete pump, lorry mounted	CNP 047	1	109.0	70.0%	107.5
Poker, vibratory, hand-held	CNP 170	3	113.0	70.0%	116.2
Total					117.2

Demolition Works

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Backhoe	CNP 081	1	112.0	85.0%	111.3
Breaker, excavator mounted (hydraulic)	CNP 028	1	122.0	85.0%	121.3
Lorry	CNP 141	1	112.0	85.0%	111.3
Total					122.1

Roadwork

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Backhoe	CNP 081	1	112.0	85.0%	111.3
Lorry	CNP 141	1	112.0	85.0%	111.3
Roller	CNP 185	1	108.0	85.0%	107.3
Total					115.1

Powered Mechanical Equipment (PME) for the Different Construction Tasks during Normal Daytime Working Hours (Without Mitigation Measures)

PME for SCISTW works

Major Construction Equipment for SCISTW Stage 2A

1. Site clearance and set up site office

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Breaker, excavator mounted (hydraulic)	CNP 028	1	122.0	85.0%	121.3
Excavator	CNP 081	1	112.0	85.0%	111.3
Air Compressor	CNP 001	1	109.0	85.0%	108.3
Dump Truck	CNP 067	1	117.0	85.0%	116.3
Bulldozer	CNP 030	1	115.0	85.0%	114.3
Generator	CNP 101	1	108.0	85.0%	107.3
Total					123.6

2. Shallow excavation(5-10m) without piling works (Type A1)

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Excavator	CNP 081	2	112.0	85.0%	114.3
Breaker, excavator mounted (hydraulic)	CNP 028	1	122.0	85.0%	121.3
Hydraulic vibrating hammer	CNP 172	2	115.0	85.0%	117.3
Water Pumps	CNP 281	3	88.0	85.0%	92.1
Generator	CNP 101	2	108.0	85.0%	110.3
Dump Truck	CNP 067	2	117.0	85.0%	119.3
Total					124.9

3. Shallow excavation (5 - 10m) with piling works (prebored H-piles) (Type A2)

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Excavator	CNP 081	2	112.0	85.0%	114.3
Breaker, excavator mounted (hydraulic)	CNP 028	1	122.0	85.0%	121.3
Hydraulic vibrating hammer	CNP 172	1	115.0	85.0%	114.3
Water Pumps	CNP 281	3	88.0	85.0%	92.1
Dump Truck	CNP 067	2	117.0	85.0%	119.3
Mobile crane	CNP 048	2	112.0	85.0%	114.3
Down the hole hammer	CNP 166	2	100.0	85.0%	102.3
Auger	CNP 167	2	114.0	85.0%	116.3
Generator	CNP 101	2	108.0	85.0%	110.3
Air Compressor	CNP 001	2	109.0	85.0%	111.3
Total					125.7

4. Drill and blast excavation (Type B)

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Gantry	CNP 049	1	95.0	85.0%	94.3
Generator	CNP 101	2	108.0	85.0%	110.3
Backhoe	CNP081	2	112.0	85.0%	114.3
Air compressor	CNP 001	1	109.0	85.0%	108.3
Conveyor belt	CNP 041	2	90.0	85.0%	92.3
Ventilation fan	!	1	85.0	100.0%	85.0
Water Pump	CNP 281	2	88.0	85.0%	90.3
Drillrig Jumbo	CNP 028	1	122.0	85.0%	121.3
Total					122.5

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5. Deep excavation with diaphragm wall (Type C)

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Mobile Crane	CNP 048	1	112.0	85.0%	111.3
Lorry	CNP 141	2	112.0	85.0%	114.3
Concrete Lorry Mixer	CNP 044	2	109.0	85.0%	111.3
Concrete Pump Truck	CNP 047	1	109.0	85.0%	108.3
Excavator	CNP 081	1	112.0	85.0%	111.3
Chisel	CNP 164	1	115.0	85.0%	114.3
Total					120.0

6. Deep excavation with Pipe jacking (Type D)

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Gantry	CNP 049	1	95.0	85.0%	94.3
Ventilation Fan	!	1	85.0	100.0%	85.0
Water Pump	CNP 281	1	88.0	85.0%	87.3
Welding Machine	**	1	100.0	85.0%	99.3
Air Compressor	CNP001	1	109.0	85.0%	108.3
Grout Pump with Mixer	CNP 045 +047	1	109.0	85.0%	108.3
Total					111.7

7. Civil Works

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Mobile crane	CNP 048	2	112.0	85.0%	114.3
Concrete lorry mixer	CNP 044	2	109.0	85.0%	111.3
Bar Bender and cutter	CNP 021	2	90.0	85.0%	92.3
Concrete pump, lorry mounted	CNP 047	2	109.0	85.0%	111.3
Poker, vibratory, hand-held	CNP 170	3	113.0	85.0%	117.1
Generator	CNP 101	2	108.0	85.0%	110.3
Air compressor	CNP 001	2	109.0	85.0%	111.3
Total					121.1

8. Pipeworks

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Backhoe	CNP081	1	112.0	85.0%	111.3
Lorry	CNP141	1	112.0	85.0%	111.3
Mobile crane	CNP048	1	112.0	85.0%	111.3
Compactor	CNP050	1	105.0	85.0%	104.3
Generator	CNP 101	1	108.0	85.0%	107.3
Air compressor	CNP 001	1	109.0	85.0%	108.3
Roller	CNP186	1	108.0	85.0%	107.3
Total					117.8

9. Demolition Works

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Excavator	CNP 081	1	112.0	85.0%	111.3
Breaker, excavator mounted	CNP 028	2	122.0	85.0%	124.3
lorry	CNP 141	1	112.0	85.0%	111.3
Total					124.7

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10. Building Works

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Mobile crane	CNP048	1	112.0	85.0%	111.3
Total					111.3

11. E&M Works

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Mobile crane	CNP048	1	112.0	85.0%	111.3
Total					111.3

12. Road Works

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Backhoe	CNP081	1	112.0	85.0%	111.3
Lorry	CNP141	1	112.0	85.0%	111.3
Roller	CNP186	1	108.0	85.0%	107.3
Total					115.1

Powered Mechanical Equipment (PME) for the Different Construction Tasks during Normal Daytime Working Hours (Without Mitigation Measures)

PME for SCS Construction

Major Construcion Equipment for North Point PTW

Phase III - Both PTW upgrading and SCS drop shaft finishing work(Oct 2012 - Jun 2013)

Excavation (shallow excavation with sheet piling)

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Vibrating hammer	CNP 172	2	115.0	85.0%	117.3
Backhoe	CNP 081	2	112.0	85.0%	114.3
Breaker, excavator mounted (hydraulic)	CNP 028	2	122.0	85.0%	124.3
Total					125.4

North Point PTW - Drop Shaft Finishing Works(Oct 2012 - Jun 2013)(Phase 3)(Group 1)

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Generator	CNP 101	2	108.0	85.0%	110.3
Crane Lorry	CNP 048	1	112.0	85.0%	111.3
Mobile Crane	CNP 048	1	112.0	85.0%	111.3
Air Compressor	CNP 001	2	109.0	85.0%	111.3
Concrete Pump Truck	CNP 047	2	109.0	85.0%	111.3
Lorry	CNP 141	2	112.0	85.0%	114.3
Total					119.6

North Point PTW - Drop Shaft Finishing Works(Oct 2012 - Jun 2013)(Phase 3)(Group 2)

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Crane Lorry	CNP 048	1	112.0	85.0%	111.3
Mobile Crane	CNP 048	1	112.0	85.0%	111.3
Circular Saw	CNP 201	1	108.0	85.0%	107.3
Lorry	CNP 141	2	112.0	85.0%	114.3
Total					117.7

**Powered Mechanical Equipment (PME) for the Different
Construction Tasks during Normal Daytime Working Hours
(Without Mitigation Measures)**

PME for SCS Construction

Major Construcion Equipment for Central PTW

Phase III - Both PTW upgrading and SCS drop shaft finishing work(Oct 2012 - Jun 2013)

Landscape + Roadwork

Powered Mechanical Equipment (PME)	TM Ref/ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Crane(mobile)	CNP 048	1	112.0	85.0%	111.3
Backhoe	CNP 081	1	112.0	85.0%	111.3
Lorry	CNP 141	1	112.0	85.0%	111.3
Roller	CNP 185	1	108.0	85.0%	107.3
Total					116.6

Central PTW - Drop Shaft Finishing Works(Oct 2012 - Jun 2013)(Phase 3)(Group 1)

Powered Mechanical Equipment (PME)	TM Ref/ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Generator	CNP 101	2	108.0	85.0%	110.3
Crane Lorry	CNP 048	1	112.0	85.0%	111.3
Mobile Crane	CNP 048	1	112.0	85.0%	111.3
Air Compressor	CNP 001	2	109.0	85.0%	111.3
Concrete Pump Truck	CNP 047	2	109.0	85.0%	111.3
Lorry	CNP 141	2	112.0	85.0%	114.3
Total					119.6

Central PTW - Drop Shaft Finishing Works(Oct 2012 - Jun 2013)(Phase 3)(Group 2)

Powered Mechanical Equipment (PME)	TM Ref/ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Crane Lorry	CNP 048	1	112.0	85.0%	111.3
Mobile Crane	CNP 048	1	112.0	85.0%	111.3
Circular Saw	CNP 201	1	108.0	85.0%	107.3
Lorry	CNP 141	2	112.0	85.0%	114.3
Total					117.7

Powered Mechanical Equipment (PME) for the Different Construction Tasks during Normal Daytime Working Hours (Without Mitigation Measures)

PME for SCS Construction

Major Construction Equipment for Wah Fu PTW

Phase III - Both PTW upgrading and SCS drop shaft finishing work(Sep 2012 - Jun 2013)

Landscape + Roadwork

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Crane(mobile)	CNP 048	1	112.0	85.0%	111.3
Backhoe	CNP 081	1	112.0	85.0%	111.3
Lorry	CNP 141	1	112.0	85.0%	111.3
Roller	CNP 185	1	108.0	85.0%	107.3
Total					116.6

Wah Fu PTW - Drop Shaft Finishing Works(Sep 2012 - Jun 2013)(Phase 3)(Group 1)

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Generator	CNP 101	2	108.0	85.0%	110.3
Crane Lorry	CNP 048	1	112.0	85.0%	111.3
Mobile Crane	CNP 048	1	112.0	85.0%	111.3
Air Compressor	CNP 001	2	109.0	85.0%	111.3
Concrete Pump Truck	CNP 047	2	109.0	85.0%	111.3
Lorry	CNP 141	2	112.0	85.0%	114.3
Total					119.6

Wah Fu PTW - Drop Shaft Finishing Works(Sep 2012 - Jun 2013)(Phase 3)(Group 2)

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Crane Lorry	CNP 048	1	112.0	85.0%	111.3
Mobile Crane	CNP 048	1	112.0	85.0%	111.3
Circular Saw	CNP 201	1	108.0	85.0%	107.3
Lorry	CNP 141	2	112.0	85.0%	114.3
Total					117.7

**Powered Mechanical Equipment (PME) for the Different
Construction Tasks during Normal Daytime Working Hours
(Without Mitigation Measures)**

PME for SCS Construction

Major Construction Equipment for Aberdeen PTW

Phase III - Both PTW upgrading and SCS drop shaft finishing work(Jan 2013 - Sep 2013)

Excavation (shallow excavation with sheet piling)

Powered Mechanical Equipment (PME)	TM Ref/ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Vibrating hammer	CNP 172	2	115.0	85.0%	117.3
Backhoe	CNP 081	2	112.0	85.0%	114.3
Breaker, excavator mounted (hydraulic)	CNP 028	2	122.0	85.0%	124.3
Total					125.4

Aberdeen PTW - Drop Shaft Finishing Works(Jan 2013 - Sep 2013)(Phase 3)(Group 1)

Powered Mechanical Equipment (PME)	TM Ref/ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Generator	CNP 101	2	108.0	85.0%	110.3
Crane Lorry	CNP 048	1	112.0	85.0%	111.3
Mobile Crane	CNP 048	1	112.0	85.0%	111.3
Air Compressor	CNP 001	2	109.0	85.0%	111.3
Concrete Pump Truck	CNP 047	2	109.0	85.0%	111.3
Lorry	CNP 141	2	112.0	85.0%	114.3
Total					119.6

Aberdeen PTW - Drop Shaft Finishing Works(Jan 2013 - Sep 2013)(Phase 3)(Group 2)

Powered Mechanical Equipment (PME)	TM Ref/ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Crane Lorry	CNP 048	1	112.0	85.0%	111.3
Mobile Crane	CNP 048	1	112.0	85.0%	111.3
Circular Saw	CNP 201	1	108.0	85.0%	107.3
Lorry	CNP 141	2	112.0	85.0%	114.3
Total					117.7