

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 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 %	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

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 %	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^^	BS TableC3 108	1	97.0	85.0%	5.0	91.3
Total						108.9

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 %	Acoustic Mat / Barrier	Total SWL dB(A)
Crawler Drill*						
Dump Truck#	Table C7/114	2	105.0	85.0%	0.0	107.3
Generator^^	CNP 102	2	100.0	85.0%	10.0	92.3
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						113.8

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 %	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

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 %	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

QPME ^ Acoustic mat
 ^^ Barrier * Underground plant
 ** East Rail Extension
 *** KCRC KSL 100 BIA
 @ H K 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 %	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^^	BS TableC3 108	1	97.0	85.0%	5.0	91.3
Total						108.9

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 %	Acoustic Mat / Barrier	Total SWL dB(A)
Crawler Drill*		1		85.0%	0.0	
Dump Truck#	Table C9/27	2	105.0	85.0%	0.0	107.3
Generator^^	CNP 102	2	100.0	85.0%	10.0	92.3
Hydraulic Breaker*		1		85.0%	0.0	
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						113.8

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 %	Acoustic Mat / Barrier	Total SWL dB(A)
Gantry***		1	95.0	85.0%	5.0	89.3
Generator*		2		100.0%		
Air compressor*		1		100.0%		
Conveyor belt*		2		100.0%		
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		100.0%		
Diesel Train*		1		100.0%		
Mortar car*		1		100.0%		
TBM*		1		100.0%		
Total						106.1

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 %	Acoustic Mat / Barrier	Total SWL dB(A)
Excavator	CNP 081	1	112.0	85.0%	5.0	106.3
Dump Truck	CNP 067	2	117.0	85.0%	0.0	119.3
Roller	CNP 185	1	108.0	85.0%	0.0	107.3
Mobile Crane	CNP048	1	112.0	85.0%	0.0	111.3
Welding Machine	**	2	100.0	85.0%	5.0	97.3
Generator	CNP101	1	108.0	85.0%	10.0	97.3
Total						120.4

Barging Activities (Aug 2009 - 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)
Derrick barge	CNP 061	1	104.0	85.0%	0.0	103.3
Dump Truck	CNP 067	2	117.0	85.0%	0.0	119.3
Total						119.4

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)

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 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 %	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

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 %	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^^	BS TableC3 108	1	97.0	85.0%	5.0	91.3
Total						108.9

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 %	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

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 %	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

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 %	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

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)

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 %	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^^	BS TableC3 108	1	97.0	85.0%	5.0	91.3
Total						108.9

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 %	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

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 %	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%		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)

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 164	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 %	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

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 %	Acoustic Mat / Barrier	Total SWL dB(A)
Excavator	CNP 081	1	112.0	85.0%	5.0	106.3
Dump Truck	CNP 067	2	117.0	85.0%	0.0	119.3
Roller	CNP 185	1	108.0	85.0%	0.0	107.3
Mobile Crane	CNP048	1	112.0	85.0%	0.0	111.3
Welding Machine	**	2	100.0	85.0%	5.0	97.3
Generator	CNP101	1	108.0	85.0%	10.0	97.3
Total						120.4

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 %	Acoustic Mat / Barrier	Total SWL dB(A)
Derrick barge	CNP 061	1	104.0	85.0%	0.0	103.3
Dump Truck	CNP 067	2	117.0	85.0%	0.0	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 %	Acoustic Mat / Barrier	Total SWL dB(A)
Excavator	CNP 081	1	112.0	85.0%	5.0	106.3
Dump Truck	CNP 067	2	117.0	85.0%	0.0	119.3
Roller	CNP 185	1	108.0	85.0%	0.0	107.3
Mobile Crane	CNP048	1	112.0	85.0%	0.0	111.3
Welding Machine	**	2	100.0	85.0%	5.0	97.3
Generator	CNP101	1	108.0	85.0%	10.0	97.3
Total						120.4

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 %	Acoustic Mat / Barrier	Total SWL dB(A)
Derrick barge	CNP 061	1	104.0	85.0%	0.0	103.3
Dump Truck	CNP 067	2	117.0	85.0%	0.0	119.3
Total						119.4

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)

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 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 %	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

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 %	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

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 %	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

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 %	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

QPME ^ Acoustic mat
 ^^ Barrier * Underground plant
 ** East Rail Extension
 *** KCR KSL 100 EIA
 @ H K 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 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 %	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

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 %	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^^	Table C3 108	1	97.0	85.0%	5.0	91.3
Total						108.9

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 %	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# ^^	CNP 047	2	109.0	85.0%	5.0	106.3
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						114.3

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 %	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)

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 %	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

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 %	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

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 %	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^^	Table C3/108	1	97.0	85.0%	5.0	91.3
Total						108.9

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 %	Acoustic Mat / Barrier	Total SWL dB(A)
Crawler Drill*		1			0.0	
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			0.0	
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

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 %	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)

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 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 %	Acoustic Mat / Barrier	Total SWL dB(A)
Pipe pile rig^	CNP 166	1	100.0	85.0%	5.0	94.3
Air compressor^^	CNP 002	1	100.0	85.0%	10.0	89.3
Generator^^	CNP 101	1	108.0	85.0%	10.0	97.3
Water pump	CNP 281	1	88.0	85.0%	0.0	87.3
Filtering plant / desander	***	1	104.0	85.0%	0.0	103.3
Crawler Crane	CNP 048	1	112.0	85.0%	0.0	111.3
Total						112.2

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 %	Acoustic Mat / Barrier	Total SWL dB(A)
Excavator#	Table C3/97	1	105.0	85.0%	0.0	104.3
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^^	BS TableC3 108	1	97.0	85.0%	5.0	91.3
Total						109.8

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 %	Acoustic Mat / Barrier	Total SWL dB(A)
Crawler Drill*		1			0.0	
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			0.0	
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

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

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 BIA
 @ HK West
 Drainage Tunnel EIA (Final)
 ! Good Practices on Vent. System
 Noise Control (EPD April 2006)

Cyberport 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 %	Acoustic Mat / Barrier	Total SWL dB(A)
Generator^^	CNP 101	2	108.0	85.0%	10.0	100.3
Crane Lorry#	Table C7/114	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

- # QPME ^ Acoustic mat
- ^^ Barrier * Underground plant
- ** East Rail Extension
- *** KCRC KSL 100 EIA
- @ HK 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 Wah Fu

Wah Fu PTW - Drop Shaft (construction of upper shaft, Diaphragm wall at shaft)(Jun 2009 - Nov 2009)(Group 1)

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
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						111.2

Wah Fu PTW - Drop Shaft (construction of upper shaft, Diaphragm wall at shaft)(Jun 2009 - Nov 2009)(Group 2)

Powered Mechanical Equipment (PME)	TM Ref/ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Acoustic Mat / Barrier	Total SWL dB(A)
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
Total						111.6

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 %	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^^	Table C3 108	1	97.0	85.0%	5.0	91.3
Total						108.9

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 %	Acoustic Mat / Barrier	Total SWL dB(A)
Raise Boring Machine@	CNP 166	1	100.0	85.0%	0.0	99.3
Generator^^	CNP 101	1	108.0	85.0%	10.0	97.3
Sedimentation Tank		1				
Grout Mixer^^	CNP 045	1	96.0	85.0%	5.0	90.3
Grout Pump^^	CNP 047	1	109.0	85.0%	5.0	103.3
Mobile Crane#	Table C7/114	1	101.0	85.0%	0.0	100.3
Concrete Pump Truck# ^^	Table C6/36	1	106.0	85.0%	5.0	100.3
Concrete Lorry Mixer	CNP 044	1	109.0	85.0%	0.0	108.3
Pokers# ^^	Table C6/32	1	100.0	85.0%	5.0	94.3
Total						111.1

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 %	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	102.0	85.0%	0.0	101.3
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						109.8

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 (BPD 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 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 %	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

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 %	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^^	Table C3 108	1	97.0	85.0%	5.0	91.3
Total						108.9

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 %	Acoustic Mat / Barrier	Total SWL dB(A)
Raise Boring Machine@	@	1	100.0	85.0%	0.0	99.3
Generator^^	CNP 101	1	108.0	85.0%	10.0	97.3
Sedimentation Tank		1				
Grout Mixer^^	CNP 045	1	96.0	85.0%	5.0	90.3
Grout Pump^^	CNP 047	1	109.0	85.0%	5.0	103.3
Mobile Crane#	Table C7/114	1	101.0	85.0%	0.0	100.3
Concrete Pump Truck# ^^	Table C6/36	1	106.0	85.0%	5.0	100.3
Concrete Lorry Mixer^^	CNP 044	1	109.0	85.0%	5.0	103.3
Pokers# ^^	Table C6/32	1	100.0	85.0%	5.0	94.3
Total						109.1

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 %	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	102.0	85.0%	0.0	101.3
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						109.8

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)

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 %	Acoustic Mat / Barrier	Total SWL dB(A)
Drill Rig, Rotary Type^^	CNP 101	2	110.0	85.0%	5.0	107.3
Total						107.3

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 %	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

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 %	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^^	Table C3 108	1	97.0	85.0%	5.0	91.3
Total						108.9

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 %	Acoustic Mat / Barrier	Total SWL dB(A)
Backhoes#	Table C3/97	1	105.0	85.0%	0.0	104.3
Breaker# ^^	Table C2/10	1	110.0	85.0%	5.0	104.3
Dump Truck#	Table C9/27	1	105.0	85.0%	0.0	104.3
Air Compressor^^	CNP 002	1	100.0	85.0%	10.0	89.3
Drilling^^	CNP 064	1	103.0	85.0%	5.0	97.3
Grout Mixer^^	CNP 045	1	96.0	85.0%	5.0	90.3
Grout Pump^^	CNP 047	1	109.0	85.0%	5.0	103.3
Conveyor Belt	CNP 041	1	90.0	85.0%	0.0	89.3
Total						110.4

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 %	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 BIA
 @ H K West
 Drainage Tunnel BIA (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 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 %	Acoustic Mat / Barrier	Total SWL dB(A)
Pipe pile rig [^]	CNP 166	1	100.0	85.0%	5.0	94.3
Air compressor ^{^^}	CNP 002	1	100.0	85.0%	10.0	89.3
Generator ^{^^}	CNP 101	1	108.0	85.0%	10.0	97.3
Water pump	CNP 281	1	88.0	85.0%	0.0	87.3
Filtering plant / desander	***	1	104.0	85.0%	0.0	103.3
Crawler Crane	CNP 048	1	112.0	85.0%	0.0	111.3
Total						112.2

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 %	Acoustic Mat / Barrier	Total SWL dB(A)
Excavator#	Table C3/97	1	105.0	85.0%	0.0	104.3
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 ^{^^}	Table C3 108	1	97.0	85.0%	5.0	91.3
Total						109.8

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 %	Acoustic Mat / Barrier	Total SWL dB(A)
Backhoes#	Table C3/97	1	105.0	85.0%	0.0	104.3
Breaker# ^{^^}	Table C2/10	1	110.0	85.0%	5.0	104.3
Dump Truck#	Table C9/27	1	105.0	85.0%	0.0	104.3
Air Compressor ^{^^}	CNP 002	1	100.0	85.0%	10.0	89.3
Drilling ^{^^}	CNP 064	1	103.0	85.0%	5.0	97.3
Grout Mixer ^{^^}	CNP 045	1	96.0	85.0%	5.0	90.3
Grout Pump ^{^^}	CNP 047	1	109.0	85.0%	5.0	103.3
Conveyor Belt	CNP 041	1	90.0	85.0%	0.0	89.3
Total						110.4

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 %	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 C7/19	2	102.0	85.0%	0.0	104.3
Total						109.3

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)

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 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 %	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

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 %	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#	CNP067	2	105.0	85.0%	0.0	107.3
Welding Machine^^	**	1	100.0	85.0%	5.0	94.3
Mini Excavator^^	Table C3 108	1	97.0	85.0%	5.0	91.3
Total						108.9

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 %	Acoustic Mat / Barrier	Total SWL dB(A)
Crawler Drill*		1			0.0	
Dump Truck#	CNP067	2	105.0	85.0%	0.0	107.3
Generator^^	CNP 101	2	108.0	85.0%	10.0	100.3
Hydraulic Breaker*		1			0.0	
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 001	1	109.0	85.0%	10.0	98.3
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						114.0

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 %	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 001	2	109.0	85.0%	10.0	101.3
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%	0.0	108.3
Lorry#	Table C9/19	2	102.0	85.0%	0.0	104.3
Total						111.5

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 %	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

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)

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 %	Acoustic Mat / Barrier	Total SWL dB(A)
Excavator#	Table C3/97	1	105.0	85.0%	0.0	104.3
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^^	TableC3 108	1	97.0	85.0%	5.0	91.3
Total						109.8

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 %	Acoustic Mat / Barrier	Total SWL dB(A)
Crawler Drill*		1		85.0%	0.0	
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		85.0%	0.0	
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 001	1	109.0	85.0%	10.0	98.3
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						114.0

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 %	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)

Powered Mechanical Equipment (PME) for the Different Construction Tasks during Normal Daytime Working Hours (With 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 %	Acoustic Mat / Barrier	Total SWL dB(A)
Mobile Crane#	Table C7/114	2	101.0	70.0%	0.0	102.5
Auger^	CNP 167	2	114.0	70.0%	5.0	110.5
Generator, standard^^	CNP 102	2	100.0	70.0%	10.0	91.5
Air Compressor^^	CNP 002	2	100.0	70.0%	10.0	91.5
Total						111.2

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

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Acoustic Mat / Barrier	Total SWL dB(A)
Vibrating hammer^	CNP 172	2	115.0	70.0%	5.0	111.5
Total						111.5

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

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Acoustic Mat / Barrier	Total SWL dB(A)
Backhoe#	Table C3/97	2	105.0	70.0%	0.0	106.5
Breaker, excavator mounted (hydraulic)#	Table C2/10	2	110.0	70.0%	5.0	106.5
Total						109.5

Concreting

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Acoustic Mat / Barrier	Total SWL dB(A)
Concrete lorry mixer	CNP 044	1	109.0	70.0%	0.0	107.5
Concrete pump truck# ^^	Table C6/36	1	106.0	70.0%	5.0	99.5
Poker# ^^	Table C6/32	3	100.0	70.0%	5.0	98.2
Total						108.5

Demolition Works

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Acoustic Mat / Barrier	Total SWL dB(A)
Backhoe#	Table C3/97	1	105.0	85.0%	0.0	104.3
Breaker, excavator mounted (hydraulic)	Table C2/10	2	110.0	85.0%	5.0	107.3
Lorry#	Table C9/19	1	102.0	85.0%	0.0	101.3
Total						109.7

Roadwork

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Acoustic Mat / Barrier	Total SWL dB(A)
Backhoe#	Table C3/97	1	105.0	85.0%	0.0	104.3
Lorry#	Table C9/19	1	102.0	85.0%	0.0	101.3
Roller#	Table C8/30	1	101.0	85.0%	0.0	100.3
Total						107.1

- # 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)

Powered Mechanical Equipment (PME) for the Different Construction Tasks during Normal Daytime Working Hours (With 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 %	Acoustic Mat / Barrier	Total SWL dB(A)
Mobile crane#	Table C7/114	1	101.0	70.0%	0.0	99.5
Auger^	CNP 167	1	114.0	70.0%	5.0	107.5
Generator^^	CNP 102	1	100.0	70.0%	10.0	88.5
Air Compressor^^	CNP 002	1	100.0	70.0%	10.0	88.5
Total						108.2

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

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Acoustic Mat / Barrier	Total SWL dB(A)
Vibrating hammer^	CNP 172	1	115.0	70.0%	5.0	108.5
Total						108.5

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

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Acoustic Mat / Barrier	Total SWL dB(A)
Backhoe#	Table C3/97	1	105.0	70.0%	0.0	103.5
Breaker#	Table C2/10	1	110.0	70.0%	5.0	103.5
Total						106.5

Concreting

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Acoustic Mat / Barrier	Total SWL dB(A)
Concrete lorry mixer	CNP 044	1	109.0	70.0%	0.0	107.5
Concrete pump truck# ^^	Table C6/36	1	106.0	70.0%	5.0	99.5
Poker# ^^	Table C6/32	3	100.0	70.0%	5.0	98.2
Total						108.5

Demolition Works

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Acoustic Mat / Barrier	Total SWL dB(A)
Backhoe#	Table C3/97	1	105.0	85.0%	0.0	104.3
Breaker#	Table C2/10	1	110.0	85.0%	5.0	104.3
Lorry#	Table C9/19	1	102.0	85.0%	0.0	101.3
Total						108.3

Roadwork

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Acoustic Mat / Barrier	Total SWL dB(A)
Backhoe#	Table C3/97	1	105.0	85.0%	0.0	104.3
Lorry#	Table C9/19	1	102.0	85.0%	0.0	101.3
Roller#	Table C8/30	1	101.0	85.0%	0.0	100.3
Total						107.1

QPME ^ Acoustic mat
 ^^ Barrier * Underground plant
 ** East Rail Extension
 *** KCRC KSL 100 EIA
 @ H K West
 Drainage Tunnel EIA (Final)
 I 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 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 %	Acoustic Mat Barrier	Total SWL dB(A)
Breaker#	Table C2/10	1	110.0	85.0%	5.0	104.3
Excavator# ^^	Table C3/97	1	105.0	85.0%	5.0	99.3
Air Compressor^^	CNP 002	1	100.0	85.0%	10.0	89.3
Dump Truck#	Table C9/27	1	105.0	85.0%	0.0	104.3
Bulldozer	CNP 030	1	115.0	85.0%	0.0	114.3
Generator^^	CNP 101	1	108.0	85.0%	10.0	97.3
Total						115.3

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 %	Acoustic Mat Barrier	Total SWL dB(A)
Excavator# ^^	Table C3/97	2	105.0	85.0%	5.0	102.3
Breaker#	Table C2/10	1	110.0	85.0%	5.0	104.3
Vibrating hammer^^	CNP 172	2	115.0	85.0%	5.0	112.3
Water Pumps	CNP 281	3	88.0	85.0%	0.0	92.1
Generator^^	CNP 101	2	108.0	85.0%	10.0	100.3
Dump Truck#	Table C9/27	2	105.0	85.0%	0.0	107.3
Total						114.5

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 %	Acoustic Mat Barrier	Total SWL dB(A)
Excavator# ^^	Table C3/97	2	105.0	85.0%	5.0	102.3
Breaker#	Table C2/10	1	110.0	85.0%	5.0	104.3
Vibrating hammer^^	CNP 172	1	115.0	85.0%	5.0	109.3
Water Pumps	CNP 281	3	88.0	85.0%	0.0	92.1
Dump Truck#	Table C9/27	2	105.0	85.0%	0.0	107.3
Mobile crane#	Table C7/114	2	101.0	85.0%	0.0	103.3
Down the hole hammer	CNP 166	2	100.0	85.0%	5.0	97.3
Auger^	CNP 167	2	114.0	85.0%	5.0	111.3
Generator^^	CNP 101	2	108.0	85.0%	10.0	100.3
Air Compressor^^	CNP 002	2	100.0	85.0%	10.0	92.3
Total						115.5

4. Drill and blast excavation (Type B)

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Acoustic Mat Barrier	Total SWL dB(A)
Gantry***	CNP 049	1	95.0	85.0%	5.0	89.3
Generator^^	CNP 101	2	108.0	85.0%	10.0	100.3
Backhoe#	Table C3/97	2	105.0	85.0%	0.0	107.3
Air compressor^^	CNP 002	1	100.0	85.0%	10.0	89.3
Conveyor belt	CNP 041	2	90.0	85.0%	0.0	92.3
Ventilation fan^^	!	1	85.0	100.0%	5.0	80.0
Water Pump	CNP 281	2	88.0	85.0%	0.0	90.3
Drillrig Jumbo	CNP 028	1	122.0	85.0%	5.0	116.3
Total						116.9

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

5. Deep excavation with diaphragm wall (Type C)

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

6. Deep excavation with Pipe jacking (Type D)

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Acoustic Mat Barrier	Total SWL dB(A)
Gantry***	CNP 049	1	95.0	85.0%	5.0	89.3
Ventilation Fan^^	!	1	85.0	100.0%	0.0	85.0
Water Pump	CNP 281	1	88.0	85.0%	0.0	87.3
Welding Machine^^	**	1	100.0	85.0%	5.0	94.3
Air Compressor^^	CNP001	1	109.0	85.0%	10.0	98.3
Grout Pump with Mixer^^	CNP 045 +047	1	109.0	85.0%	5.0	103.3
Total						105.1

7. Civil Works

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	2	101.0	85.0%	0.0	103.3
Concrete lorry mixer	CNP 044	2	109.0	85.0%	0.0	111.3
Bar Bender and cutter^^	CNP 021	2	90.0	85.0%	5.0	87.3
Concrete pump truck# ^^	Table C6/36	2	106.0	85.0%	5.0	103.3
Poker# ^^	Table C6/32	3	100.0	85.0%	5.0	99.1
Generator^^	CNP 101	2	108.0	85.0%	10.0	100.3
Air compressor^^	CNP 002	2	100.0	85.0%	10.0	92.3
Total						113.0

8. Pipeworks

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Acoustic Mat Barrier	Total SWL dB(A)
Backhoe#	Table C3/97	1	105.0	85.0%	0.0	104.3
Lorry#	Table C9/19	1	102.0	85.0%	0.0	101.3
Mobile crane#	Table C7/114	1	101.0	85.0%	0.0	100.3
Compactor	CNP050	1	105.0	85.0%	0.0	104.3
Generator^^	CNP 101	1	108.0	85.0%	10.0	97.3
Air compressor^^	CNP 002	1	100.0	85.0%	10.0	89.3
Roller#	Table C8/30	1	101.0	85.0%	0.0	100.3
Total						109.8

9. Demolition Works

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
Breaker#	Table C2/10	2	110.0	85.0%	5.0	107.3
Lorry#	Table C9/19	1	102.0	85.0%	0.0	101.3
Total						108.8

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

10. Building Works

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
Total						100.3

11. E&M Works

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
Total						100.3

12. Road Works

Powered Mechanical Equipment (PME)	TM Ref/ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Acoustic Mat Barrier	Total SWL dB(A)
Backhoe#	Table C3/97	1	105.0	85.0%	0.0	104.3
Lorry#	Table C9/19	1	102.0	85.0%	0.0	101.3
Roller#	Table C8/30	1	101.0	85.0%	0.0	100.3
Total						107.1

- # 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)

**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 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 %	Acoustic Mat Barrier	Total SWL dB(A)
Vibrating hammer^^	CNP 172	2	115.0	85.0%	5.0	112.3
Backhoe#	Table C3/97	2	105.0	85.0%	0.0	107.3
Breaker#	Table C2/10	2	110.0	85.0%	5.0	107.3
Total						114.4

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 %	Acoustic Mat / Barrier	Total SWL dB(A)
Generator^^	CNP 102	2	100.0	85.0%	10.0	92.3
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
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						108.1

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 %	Acoustic Mat / Barrier	Total SWL dB(A)
Crane Lorry#	Table C7/101	1	102.0	85.0%	0.0	101.3
Mobile Crane#	Table C7/114	1	101.0	85.0%	0.0	100.3
Circular Saw# ^^	Table C7/78	1	106.0	85.0%	5.0	100.3
Lorry#	Table C9/19	2	102.0	85.0%	0.0	104.3
Total						107.9

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)

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 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 %	Acoustic Mat Barrier	Total SWL dB(A)
Crane(mobile)#	Table C7/114	1	101.0	85.0%	0.0	100.3
Backhoc#	Table C3/97	1	105.0	85.0%	0.0	104.3
Lorry#	Table C9/19	1	102.0	85.0%	0.0	101.3
Roller#	Table C8/30	1	101.0	85.0%	0.0	100.3
Total						107.9

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 %	Acoustic Mat / Barrier	Total SWL dB(A)
Generator^^	CNP 101	2	108.0	85.0%	10.0	100.3
Crane Lorry#	Table C7/10	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
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						108.7

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 %	Acoustic Mat / Barrier	Total SWL dB(A)
Crane Lorry#	Table C7/10	1	94.0	85.0%	0.0	93.3
Mobile Crane#	Table C7/114	1	101.0	85.0%	0.0	100.3
Circular Saw# ^^	Table C7/78	1	106.0	85.0%	5.0	100.3
Lorry#	Table C9/19	2	102.0	85.0%	0.0	104.3
Total						107.0

- # 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)

**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 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 %	Acoustic Mat Barrier	Total SWL dB(A)
Crane(mobile)#	Table C7/114	1	101.0	85.0%	0.0	100.3
Backhoe#	Table C3/97	1	105.0	85.0%	0.0	104.3
Lorry#	Table C9/19	1	102.0	85.0%	0.0	101.3
Roller#	Table C8/30	1	101.0	85.0%	0.0	100.3
Total						107.9

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 %	Acoustic Mat / Barrier	Total SWL dB(A)
Generator^^	CNP 102	2	100.0	85.0%	10.0	92.3
Crane Lorry#	Table C7/101	1	102.0	85.0%	0.0	101.3
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
Concrete Pump Truck# ^^	Table C6/36	1	106.0	85.0%	5.0	100.3
Lorry#	Table C9/19	2	102.0	85.0%	0.0	104.3
Total						108.1

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 %	Acoustic Mat / Barrier	Total SWL dB(A)
Crane Lorry#	Table C7/101	1	102.0	85.0%	0.0	101.3
Mobile Crane#	Table C7/114	1	101.0	85.0%	0.0	100.3
Circular Saw# ^^	Table C7/78	2	106.0	85.0%	5.0	103.3
Lorry#	Table C9/19	2	102.0	85.0%	0.0	104.3
Total						108.6

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)

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

PME for SCS Construction

Major Construcion Equipment for Aberdeen PTW

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

Aberdeen PTW - Drop Shaft Finishing Works(Group 1)

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 001	2	109.0	85.0%	10.0	101.3
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

Aberdeen PTW - Drop Shaft Finishing Works(Group 2)

Powered Mechanical Equipment (PME)	TM Ref/ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Acoustic Mat Barrier	Total SWL dB(A)
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
Circular Saw# ^^	Table C7/78	1	108.0	85.0%	5.0	102.3
Lorry#	Table C9/19	2	102.0	85.0%	0.0	104.3
Total						107.5

Excavation (shallow excavation with sheet piling)

Powered Mechanical Equipment (PME)	TM Ref/ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Acoustic Mat Barrier	Total SWL dB(A)
Vibrating hammer^^	CNP 172	2	115.0	85.0%	5.0	112.3
Backhoe#	Table C3/97	2	105.0	85.0%	0.0	107.3
Breaker#	Table C2/10	2	110.0	85.0%	5.0	107.3
Total						114.4

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)