

Appendix 4.1 Construction Plant Inventory for SCL Protection Works - Unmitigated Scenario

Plant Inventory for Construction Noise Assessment - SCL Protection Works at CBTS

Scenario:

Unmitigated ▼

Package: SCL Protection Works at CBTS

SCL Protection Work at CBTS (reference to CWB EIA, EIA-141/2007)

Dredging (= Removal Temp. Seawall) (1/5/2012 - 31/5/2012)						
PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Sub-total SWL	
Grab Dredger	CNP 063	2	112	100%	115	
Tug boat	CNP 221	2	110	100%	113	
Barges	-	4	0	100%	0	
Overall Noise Level, dB(A)					117.1	
Temporary Seawall Construction (1/6/2012 - 30/6/2012)						
PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Sub-total SWL	
Derrick Barge	CNP 061	2	104	100%	107	
Tug boat	CNP 221	1	110	100%	110	
Crane	CNP 048	2	112	100%	115	
Barges	-	2	0	100%	0	
Overall Noise Level, dB(A)					116.7	
Filling behind Temporary Seawall (1/7/2012 - 31/8/2012)						
PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Sub-total SWL	
Derrick Barge	CNP 061	2	104	100%	107	
Barge	-	2	0	100%	0	
Tug Boat	CNP 221	2	110	100%	113	
Bulldozer	CNP 030	2	115	100%	118	
Overall Noise Level, dB(A)					119.5	
Diaphragm Wall Construction (1/7/2012 - 31/12/2012)						
PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Sub-total SWL	
Crane	CNP 048	4	112	100%	118	
Excavator	CNP 081	4	112	100%	118	
Dump Truck	CNP 067	8	117	100%	126	
Concrete Pump	CNP 047	4	109	100%	115	
Concrete Lorry Mixer	CNP 044	4	109	100%	115	
Bentonite Plants	CNP 162	4	105	100%	111	
Bar Bender	CNP 021	2	90	100%	93	
Diaphragm Wall Rigs	CNP 164	4	115	100%	121	
Overall Noise Level, dB(A)					128.6	
Excavation (1/12/2012 - 30/4/2013)						
PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Sub-total SWL	
Excavator	CNP 081	8	112	100%	121	
Dump Truck	CNP 067	24	117	100%	131	
Overall Noise Level, dB(A)					131.2	
Construction of Tunnel Box Structure (1/2/2013 - 31/8/2013)						
PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Sub-total SWL	
Crane	CNP 048	2	112	100%	115	
Concrete Pump	CNP 047	4	109	100%	115	
Concrete Lorry Mixer	CNP 044	8	109	100%	118	
Derrick Barge	CNP 061	1	104	100%	104	
Tug boat	CNP 221	1	110	100%	110	
Poker Vibrator	CNP 170	4	113	100%	119	
Bar Bender	CNP 021	2	90	100%	93	
Air Compressor	CNP 002	4	100	100%	106	
Overall Noise Level, dB(A)					123.5	
Backfill (1/9/2013 - 31/11/2013)						
PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Sub-total SWL	
Excavator	CNP 081	4	112	100%	118	
Bulldozer	CNP 030	2	115	100%	118	
Derrick Barge	CNP 061	1	104	100%	104	
Tug boat	CNP 221	1	110	100%	110	
Roller	CNP 186	2	108	100%	111	
Trucks	CNP 067	4	117	100%	123	
Overall Noise Level, dB(A)					125.5	
Construction of Temporary Seawall for Retained Reclamation (1/11/2013 - 30/11/2013)						
PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Sub-total SWL	
Derrick Barge	CNP 061	1	104	100%	104	
Tug boat	CNP 221	1	110	100%	110	
Crane	CNP 048	1	112	100%	112	
Barges	-	1	0	100%	0	
Overall Noise Level, dB(A)					114.5	
Removal Temp. Reclamation (= Dredging) (1/12/2013 - 31/12/2013)						
PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Sub-total SWL	
Grab Dredger	CNP 063	2	112	100%	115	
Tug boat	CNP 221	2	110	100%	113	
Barges	-	4	0	100%	0	
Overall Noise Level, dB(A)					117.1	

Note: No noise emits from barges during dredging.

Appendix 4.1 Construction Plant Inventory for SCL Protection Works at CBTS - Unmitigated Scenario

Plant Inventory for Construction Noise Assessment - Temporary Relocation of Mooring Space at SE Corner of CBTS

Scenario:

Unmitigated ▼

Package: Mooring Site at CBTS

Temporary Relocation of Mooring Space at SE Corner of CBTS

Dredging of SE Corner

(1/2/2012 - 30/4/2012)

	PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Dredger, grab		CNP 063	1	112	100%	0	112
Derrick Barges		CNP 061	1	104	100%	0	104
Overall Noise Level, dB(A)							113

Plant Inventory for Construction Noise Assessment - Temporary Relocation of Jetty

Scenario:

Unmitigated ▼

Package: Temporary Relocation of Jetty

Construction of New Temporary Jetty

Piling

(1/2/2012 - 29/2/2012)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Piling, large diameter bored, grab and chisel	CNP 164	1	115	100%	0	115
Generator	CNP 102	1	100	100%	0	100
Water Pump	CNP 281	1	88	100%	0	88
Derrick Barges	CNP 061	1	104	100%	0	104
Tug boat	CNP 221	1	110	100%	0	110
Air Compressor	CNP 002	1	102	100%	0	102
Concrete Pump	CNP 047	1	109	100%	0	109
Barge	-	1	0	100%	0	0
Overall Noise Level, dB(A)						117

Demolition of CWB Temporary Jetty

Demolition of CWB Temporary Jetty

(1/3/2012 - 31/3/2012)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Excavator	CNP 081	1	112	100%	0	112
Hand-held Breaker	CNP 026	1	114	100%	0	114
Derrick Barges	CNP 061	1	104	100%	0	104
Tug boat	CNP 221	1	110	100%	0	110
Dump Truck	CNP 067	1	117	100%	0	117
Crane	CNP 048	1	112	100%	0	112
Overall Noise Level, dB(A)						121

Demolition of Temporary Jetty

Demolition of Temporary Jetty

(1/3/2014 - 31/3/2014)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Excavator	CNP 081	1	112	100%	0	112
Hand-held Breaker	CNP 026	1	114	100%	0	114
Derrick Barges	CNP 061	1	104	100%	0	104
Tug boat	CNP 221	1	110	100%	0	110
Dump Truck	CNP 067	1	117	100%	0	117
Crane	CNP 048	1	112	100%	0	112
Overall Noise Level, dB(A)						121

Note: No noise emits from barges during dredging.