

**Appendix 4.9 Cumulative Construction Noise Assessment - Mitigated Scenario**

NSR: CH1 - Hol Deen Court  
 Scenario: Mitigated

Package	Construction Activity	Work Site No.	SWL	Dist <sup>[2]</sup> (m)	SPL <sup>[3]</sup>	Building Screening	2012												2013												2014							
							Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun		
<b>Construction Works under Project</b>																																						
<b>Protection Works at CBTS</b>	<b>Protection Work for CWB at CBTS</b>																																					
	Dredging (= Removal Temp. Seawall)	1501	117	95	73	0																																
	Temporary Seawall Construction	1501	112	95	68	0																																
	Filling behind Temporary Seawall	1501	115	95	70	0																																
	Diaphragm Wall Construction	1502	119	167	70	0																																
	Excavation	1502	119	167	70	0																																
	Construction of Tunnel Box Structure	1502	114	167	65	0																																
	Backfill	1502	116	167	66	0																																
	Construction of Temporary Seawall for Retained Reclamation	1502	111	167	62	0																																
	Removal Temp. Reclamation (= Dredging)	1501	117	95	73	0																																
<b>Mooring Site at SE Corner of CBTS</b>	<b>Temporary Relocation of Mooring Space at SE Corner of CBTS</b>																																					
	Mobilization <sup>[#]</sup>	1507	113	669	51	0																																
<b>Temporary Relocation of Jetty</b>	<b>Temporary Relocation of Jetty</b>																																					
	Mobilization <sup>[#]</sup>																																					
	Construction of New Temporary Jetty	1504	117	269	63	0																																
	Demolition of CWB Temporary Jetty	1505	115	105	69	0																																
	Demolition of Temporary Jetty	1504	115	269	61	0																																
<b>Remarks:</b>																																						
[#] Mobilization does not involve construction activity.																																						
Overall Noise Level (SCL Protection Works alone), Leq (30min), dB(A)							-	63	69	-	73	68	73	73	70	70	70	73	70	71	71	71	65	65	65	65	66	66	67	73	-	-	61	-	-	-		
Overall Noise Level (WDII & CWB EIA), Leq (30min), dB(A) <sup>[4]</sup>							68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68
Overall Noise Level (Cumulative), Leq (30min), dB(A)							68	69	72	68	74	71	74	74	72	72	72	74	72	73	73	73	70	70	70	70	70	70	70	70	71	74	68	68	69	68	68	68

**Remarks:**

- [1] The Works Area with length to width ratio exceeding 5 : 1 is divided into Subareas.
- [2] Noise source at more than 300m from the sensitive receiver are not considered in the noise assessment due to large distance attenuation effect.
- [3] For the calculation of sound pressure levels (SPL), the PMEs are assumed to be placed at the notional source position according to the "Technical Memorandum on Noise from Construction Work other than Percussive Piling" by EPD.
- [4] The maximum noise level of WDII & CWB under mitigated scenario within the overlapping period is chosen to predict the cumulative noise level as predicted in the approved WDII & CWB EIA Report.

**Appendix 4.9 Cumulative Construction Noise Assessment - Mitigated Scenario**

NSR: CH2 - Hoi Kung Court  
 Scenario: Mitigated

Package	Construction Activity	Work Site No.	SWL	Dist <sup>[2]</sup> (m)	SPL <sup>[3]</sup>	Building Screening	2012												2013												2014							
							Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun		
<b>Construction Works under Project</b>																																						
<b>Protection Works at CBTS</b>	<b>Protection Work for CWB at CBTS</b>																																					
	Dredging (= Removal Temp. Seawall)	1501	117	96	73	0					73																											
	Temporary Seawall Construction	1501	112	96	68	0					68																											
	Filling behind Temporary Seawall	1501	115	96	70	0					70	70																										
	Diaphragm Wall Construction	1502	119	183	69	0					69	69	69	69	69	69																						
	Excavation	1502	119	183	69	0										69	69	69	69	69																		
	Construction of Tunnel Box Structure	1502	114	183	64	0											64	64	64	64	64	64	64															
	Backfill	1502	116	183	66	0															66	66	66															
	Construction of Temporary Seawall for Retained Reclamation	1502	111	183	61	0																	61															
	Removal Temp. Reclamation (= Dredging)	1501	117	96	73	0																			73													
<b>Mooring Site at SE Corner of CBTS</b>	<b>Temporary Relocation of Mooring Space at SE Corner of CBTS</b>																																					
	Mobilization <sup>[#]</sup>	1507	113	731	50	0																																
<b>Temporary Relocation of Jetty</b>	<b>Temporary Relocation of Jetty</b>																																					
	Mobilization <sup>[#]</sup>																																					
	Construction of New Temporary Jetty	1504	117	292	63	0		63																														
	Demolition of CWB Temporary Jetty	1505	115	117	68	0			68																													
	Demolition of Temporary Jetty	1504	115	292	60	0																				60												
<b>Remarks:</b>																																						
#] Mobilization does not involve construction activity.																																						
Overall Noise Level (SCL Protection Works alone), Leq (30min), dB(A)							-	63	68	-	73	68	73	73	69	69	69	72	69	70	70	70	64	64	64	64	66	66	67	73	-	-	60	-	-	-		
Overall Noise Level (WDII & CWB EIA), Leq (30min), dB(A) <sup>[4]</sup>							68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	
Overall Noise Level (Cumulative), Leq (30min), dB(A)							68	69	71	68	74	71	74	74	72	72	72	73	72	72	72	72	72	72	69	69	69	69	70	70	71	74	68	68	69	68	68	68

**Remarks:**

- [1] The Works Area with length to width ratio exceeding 5 : 1 is divided into Subareas.
- [2] Noise source at more than 300m from the sensitive receiver are not considered in the noise assessment due to large distance attenuation effect.
- [3] For the calculation of sound pressure levels (SPL), the PMEs are assumed to be placed at the notional source position according to the "Technical Memorandum on Noise from Construction Work other than Percussive Piling" by EPD.
- [4] The maximum noise level of WDII & CWB under mitigated scenario within the overlapping period is chosen to predict the cumulative noise level as predicted in the approved WDII & CWB EIA Report.

**Appendix 4.9 Cumulative Construction Noise Assessment - Mitigated Scenario**

NSR: CH3 - Elizabeth House, Block C  
 Scenario: Mitigated

Package	Construction Activity	Work Site No.	SWL	Dist <sup>[2]</sup> (m)	SPL <sup>[3]</sup>	Building Screening	2012												2013												2014								
							Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun			
<b>Construction Works under Project</b>																																							
<b>Protection Works at CBTS</b>	<b>Protection Work for CWB at CBTS</b>																																						
	Dredging (= Removal Temp. Seawall)	1501	117	216	65	0					65																												
	Temporary Seawall Construction	1501	112	216	61	0					61																												
	Filling behind Temporary Seawall	1501	115	216	63	0						63	63																										
	Diaphragm Wall Construction	1502	119	285	65	0						65	65	65	65	65	65																						
	Excavation	1502	119	285	65	0										65																							
	Construction of Tunnel Box Structure	1502	114	285	60	0											65	65	65	65	60	60	60	60															
	Backfill	1502	116	285	62	0																			62	62	62												
	Construction of Temporary Seawall for Retained Reclamation	1502	111	285	57	0																				57													
	Removal Temp. Reclamation (= Dredging)	1501	117	216	65	0																					65												
<b>Mooring Site at SE Corner of CBTS</b>	<b>Temporary Relocation of Mooring Space at SE Corner of CBTS</b>																																						
	Mobilization <sup>[#]</sup>	1507	113	872	49	0																																	
<b>Temporary Relocation of Jetty</b>	<b>Temporary Relocation of Jetty</b>																																						
	Mobilization <sup>[#]</sup>																																						
	Construction of New Temporary Jetty	1504	117	389	60	0																																	
	Demolition of CWB Temporary Jetty	1505	115	224	63	0																																	
	Demolition of Temporary Jetty	1504	115	389	58	0																																	
<b>Remarks:</b>																																							
#] Mobilization does not involve construction activity.																																							
Overall Noise Level (SCL Protection Works alone), Leq (30min), dB(A)							-	-	63	-	65	61	67	67	65	65	65	68	65	66	66	66	60	60	60	60	62	62	63	65	-	-	-	-	-	-			
Overall Noise Level (WDII & CWB EIA), Leq (30min), dB(A) <sup>[4]</sup>							68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	
Overall Noise Level (Cumulative), Leq (30min), dB(A)							68	68	69	68	70	69	71	71	70	70	70	71	70	70	70	70	70	70	69	69	69	69	69	69	69	70	68	68	68	68	68	68	68

**Remarks:**

- [1] The Works Area with length to width ratio exceeding 5 : 1 is divided into Subareas.
- [2] Noise source at more than 300m from the sensitive receiver are not considered in the noise assessment due to large distance attenuation effect.
- [3] For the calculation of sound pressure levels (SPL), the PMEs are assumed to be placed at the notional source position according to the "Technical Memorandum on Noise from Construction Work other than Percussive Piling" by EPD.
- [4] The maximum noise level of WDII & CWB under mitigated scenario within the overlapping period is chosen to predict the cumulative noise level as predicted in the approved WDII & CWB EIA Report.

**Appendix 4.9 Cumulative Construction Noise Assessment - Mitigated Scenario**

NSR: CH4 - Marco Polo Mansion  
 Scenario: Mitigated

Package	Construction Activity	Work Site No.	SWL	Dist <sup>[2]</sup> (m)	SPL <sup>[3]</sup>	Building Screening	2012												2013												2014							
							Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun		
<b>Construction Works under Project</b>																																						
<b>Protection Works at CBTS</b>	<b>Protection Work for CWB at CBTS</b>																																					
	Dredging (= Removal Temp. Seawall)	1501	117	155	68	0																																
	Temporary Seawall Construction	1501	112	155	64	0																																
	Filling behind Temporary Seawall	1501	115	155	66	0																																
	Diaphragm Wall Construction	1502	119	237	67	0																																
	Excavation	1502	119	237	67	0																																
	Construction of Tunnel Box Structure	1502	114	237	62	0																																
	Backfill	1502	116	237	63	0																																
	Construction of Temporary Seawall for Retained Reclamation	1502	111	237	59	0																																
	Removal Temp. Reclamation (= Dredging)	1501	117	155	68	0																																
<b>Mooring Site at SE Corner of CBTS</b>	<b>Temporary Relocation of Mooring Space at SE Corner of CBTS</b>																																					
	Mobilization <sup>[#]</sup>	1507	113	428	55	0																																
<b>Temporary Relocation of Jetty</b>	<b>Temporary Relocation of Jetty</b>																																					
	Mobilization <sup>[#]</sup>																																					
	Construction of New Temporary Jetty	1504	117	307	62	0																																
	Demolition of CWB Temporary Jetty	1505	115	274	61	0																																
	Demolition of Temporary Jetty	1504	115	307	60	0																																
<b>Remarks:</b>																																						
[#] Mobilization does not involve construction activity.																																						
Overall Noise Level (SCL Protection Works alone), Leq (30min), dB(A)							-	-	61	-	68	64	70	70	67	67	67	70	67	68	68	68	62	62	62	62	63	63	64	68	-	-	-	-	-	-		
Overall Noise Level (WDII & CWB EIA), Leq (30min), dB(A) <sup>[4]</sup>							73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	
Overall Noise Level (Cumulative), Leq (30min), dB(A)							73	73	73	73	74	74	75	75	74	74	74	75	74	74	74	74	74	74	73	73	73	73	73	73	74	74	73	73	73	73	73	73

**Remarks:**

- [1] The Works Area with length to width ratio exceeding 5 : 1 is divided into Subareas.
- [2] Noise source at more than 300m from the sensitive receiver are not considered in the noise assessment due to large distance attenuation effect.
- [3] For the calculation of sound pressure levels (SPL), the PMEs are assumed to be placed at the notional source position according to the "Technical Memorandum on Noise from Construction Work other than Percussive Piling" by EPD.
- [4] The maximum noise level of WDII & CWB under mitigated scenario within the overlapping period is chosen to predict the cumulative noise level as predicted in the approved WDII & CWB EIA Report.

**Appendix 4.9 Cumulative Construction Noise Assessment - Mitigated Scenario**

NSR: N11 - Mayson Garden  
 Scenario: Mitigated

Package	Construction Activity	Work Site No.	SWL	Dist <sup>[2]</sup> (m)	SPL <sup>[3]</sup>	Building Screening	2012												2013												2014					
							Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
<b>Construction Works under Project</b>																																				
<b>Protection Works at CBTS</b>	<b>Protection Work for CWB at CBTS</b>																																			
	Dredging (= Removal Temp. Seawall)	1501	117	675	56	0																														
	Temporary Seawall Construction	1501	112	675	51	0																														
	Filling behind Temporary Seawall	1501	115	675	53	0																														
	Diaphragm Wall Construction	1502	119	770	57	0																														
	Excavation	1502	119	770	57	0																														
	Construction of Tunnel Box Structure	1502	114	770	51	0																														
	Backfill	1502	116	770	53	0																														
	Construction of Temporary Seawall for Retained Reclamation	1502	111	770	49	0																														
	Removal Temp. Reclamation (= Dredging)	1501	117	675	56	0																														
<b>Mooring Site at SE Corner of CBTS</b>	<b>Temporary Relocation of Mooring Space at SE Corner of CBTS</b>																																			
	Mobilization <sup>[#]</sup>																																			
	Dredging of SE Corner	1507	113	148	64	0		64	64	64																										
<b>Temporary Relocation of Jetty</b>	<b>Temporary Relocation of Jetty</b>																																			
	Mobilization <sup>[#]</sup>																																			
	Construction of New Temporary Jetty	1504	117	793	54	0																														
	Demolition of CWB Temporary Jetty	1505	115	850	51	0																														
	Demolition of Temporary Jetty	1504	115	793	52	0																														
<b>Remarks:</b>																																				
#] Mobilization does not involve construction activity.																																				
Overall Noise Level (SCL Protection Works alone), Leq (30min), dB(A)							-	64	64	64	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							
Overall Noise Level (WDII & CWB EIA), Leq (30min), dB(A) <sup>[4]</sup>							64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64					
Overall Noise Level (Cumulative), Leq (30min), dB(A)							64	67	67	67	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64				

**Remarks:**

- [1] The Works Area with length to width ratio exceeding 5 : 1 is divided into Subareas.
- [2] Noise source at more than 300m from the sensitive receiver are not considered in the noise assessment due to large distance attenuation effect.
- [3] For the calculation of sound pressure levels (SPL), the PMEs are assumed to be placed at the notional source position according to the "Technical Memorandum on Noise from Construction Work other than Percussive Piling" by EPD.
- [4] The maximum noise level of WDII & CWB under mitigated scenario within the overlapping period is chosen to predict the cumulative noise level as predicted in the approved WDII & CWB EIA Report.

**Appendix 4.9 Cumulative Construction Noise Assessment - Mitigated Scenario**

NSR: N13 - Belle House  
 Scenario: Mitigated

Package	Construction Activity	Work Site No.	SWL	Dist <sup>[2]</sup> (m)	SPL <sup>[3]</sup>	Building Screening	2012												2013												2014					
							Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
<b>Construction Works under Project</b>																																				
<b>Protection Works at CBTS</b>	<b>Protection Work for CWB at CBTS</b>																																			
	Dredging (= Removal Temp. Seawall)	1501	117	635	56	0																														
	Temporary Seawall Construction	1501	112	635	51	0																														
	Filling behind Temporary Seawall	1501	115	635	54	0																														
	Diaphragm Wall Construction	1502	119	724	57	0																														
	Excavation	1502	119	724	57	0																														
	Construction of Tunnel Box Structure	1502	114	724	52	0																														
	Backfill	1502	116	724	54	0																														
	Construction of Temporary Seawall for Retained Reclamation	1502	111	724	49	0																														
	Removal Temp. Reclamation (= Dredging)	1501	117	635	56	0																														
<b>Mooring Site at SE Corner of CBTS</b>	<b>Temporary Relocation of Mooring Space at SE Corner of CBTS</b>																																			
	Mobilization <sup>[#]</sup>																																			
	Dredging of SE Corner	1507	113	76	70	0		70	70	70																										
<b>Temporary Relocation of Jetty</b>	<b>Temporary Relocation of Jetty</b>																																			
	Mobilization <sup>[#]</sup>																																			
	Construction of New Temporary Jetty	1504	117	736	55	0																														
	Demolition of CWB Temporary Jetty	1505	115	816	52	0																														
	Demolition of Temporary Jetty	1504	115	736	52	0																														
<b>Remarks:</b>																																				
[#] Mobilization does not involve construction activity.																																				
Overall Noise Level (SCL Protection Works alone), Leq (30min), dB(A)							-	70	70	70	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
Overall Noise Level (WDII & CWB EIA), Leq (30min), dB(A) <sup>[4]</sup>							67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67				
Overall Noise Level (Cumulative), Leq (30min), dB(A)							67	72	72	72	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67			

**Remarks:**

- [1] The Works Area with length to width ratio exceeding 5 : 1 is divided into Subareas.
- [2] Noise source at more than 300m from the sensitive receiver are not considered in the noise assessment due to large distance attenuation effect.
- [3] For the calculation of sound pressure levels (SPL), the PMEs are assumed to be placed at the notional source position according to the "Technical Memorandum on Noise from Construction Work other than Percussive Piling" by EPD.
- [4] The maximum noise level of WDII & CWB under mitigated scenario within the overlapping period is chosen to predict the cumulative noise level as predicted in the approved WDII & CWB EIA Report.