Appendix 4.7 Sample Calculation of Construction Noise Levels - Mitigated Scenario

NSR: CH1 - Hoi Deen Court Mitigated -Scenario:

		Work [1]		Dist [2]		Building					2011								2012										013						2014	
Package	Construction Activity	No.	SWL	(m)	SPL [3]	Screening	ng Ja	n Feb Ma	r Apr	May .	Jun Jul	Aug S	Sep Oc	t Nov	Dec Ja	n Feb	Mar A	pr May	Jun .	Jul Aug	g Sep	Oct	Nov De	c Jan	Feb	Mar A	pr Ma	ay Jun	Jul A	lug Se	p Oct	Nov D	ec Jan	Feb	Mar /	Apr May
							1	2 3	4	5	6 7	8	9 10	11	12 1	3 14	15 1	6 17	18	19 20	21	22	23 2	4 25	26	27 2	8 2	9 30	31	32 33	3 34	35 3	6 37	38	39	40 41
Construction Works (under Project																																			
Protection	Protection Work for CWB at CBTS																																			
Works at CBTS	Dredging (= Removal Temp. Seawall)	1501	117	95	73	0												73																		
	Temporary Seawall Construction	1501	112	95	68	0													68																	
	Filling behind Temporary Seawall	1501	115	95	70	0														70 70																
	Diaphragm Wall Construction	1502	119	167	70	0														70 70	70	70	70 70)												
	Excavation	1502	119	167	70	0																	70	70		70 7										
	Construction of Tunnel Box Structure	1502	114	167	65	0																			65	65 6	5 6	5 65	65							
	Backfill	1502	116	167	66	0																								66	66					
	Construction of Temporary Seawall for Retained Reclamation	1502	111	167	62	0																										62				
	Removal Temp. Reclamation (= Dredging)	1501	117	95	73	0																										7	3			
Mooring Site at SE Corner of CBTS	Temporary Relocation of Mooring Space at SE Corner of CBTS Mobilization [#]																																			
	Dredging of SE Corner	1507	113	669	51	0																							\perp							\rightarrow
Temporary Relocation of	Temporary Relocation of Jetty Mobilization [#]																																			
Jetty	Construction of New Temporary Jetty	1504	117	269	63	0										63																				
	Demolition of CWB Temporary Jetty	1505	115		69	0											69																			
	Demolition of Temporary Jetty	1504	115	269	61	0									-																				61	
	Remarks: [#] Mobilization does not involve construction activity.																																			
	Overall N	Noise Level (SCL I	Protecti	on Work	s, Leq (3	30min), dB	(A) -		١.	-		-		-		- 63	69	- 73	68	73 73	70	70	70 73	3 70	71	71 7	1 6	5 65	65	65 66	66	67 7	3 -	-	61	

- 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.

Appendix 4.7 Sample Calculation of Construction Noise Levels - Mitigated Scenario

NSR: CH4 - Marco Polo Mansion

Mitigated -Scenario:

Package Construction Works Protection Works at CBTS Mooring Site at SE Corner of CBTS		Work ^[1] Site		Dist [2]		Buildin		2011 2012 2013																												
Package	Construction Activity	No.	SWL	(m)	SPL [3]	Screeni	ng Ja	lan Feb I	Mar Ap	r May	Jun Ju	ul Aug	Sep O	ct Nov	Dec J	an Feb	Mar A	pr May	Jun J	ıl Aug	Sep	Oct No	v Dec	Jan	Feb N	Mar Ap	r May	Jun	Jul A	ug Ser	Oct	Nov De	c Jan	Feb	Mar A	pr May
							•	lan Feb I	3 4	5	6 7	7 8	9 1	0 11	12 1	13 14	15 1	6 17	18 1	9 20	21	22 2	3 24	25	26	27 28	29	30	31 3	2 33	34	35 3	ô 37	38	39 4	0 41
Construction Works u	inder Project																																			
Protection	Protection Work for CWB at CBTS																																			
Works at CBTS	Dredging (= Removal Temp. Seawall)	1501	117	155	68	0												68																		
	Temporary Seawall Construction	1501	112	155	64	0													64																	
	Filling behind Temporary Seawall	1501	115	155	66	0													6	66																
	Diaphragm Wall Construction	1502	119	237	67	0													6	67	67	67 67	7 67					\top								
	Excavation	1502	119	237	67	0																	67	67				\top								
	Construction of Tunnel Box Structure	1502	114	237	62	0																			62 6	62 62	62	62	62 6	.2						
	Backfill	1502	116	237	63	0																						\top		63	63	63				
	Construction of Temporary Seawall for Retained Reclamation	1502	111	237	59	0																										59				
	Removal Temp. Reclamation (= Dredging)	1501	117	155	68	0																										6	3			
-	Temporary Relocation of Mooring Space at SE Corner of CBTS Mobilization [#] Dredging of SE Corner	1507	113	428	55	0																													<u></u>	
Temporary	Temporary Relocation of Jetty						\vdash																					+	-	+			+	+	\rightarrow	-
Relocation of	Mobilization [#]																																			
	Construction of New Temporary Jetty	1504			62	0																							\perp					\perp		
	Demolition of CWB Temporary Jetty	1505	115		61	0											61											'	\perp					$\perp \perp \perp$		
	Demolition of Temporary Jetty	1504	115	307	60	0	-	\perp																				+	\vdash	\perp				\vdash	\rightarrow	
	Remarks: [#] Mobilization does not involve construction activity.																																			
	Ouesell I	Noise Level (SCL F	Protocti	W		20:\ -10	/A\								\vdash		04	- 00	04 7	. 70	07	07 0	7 70	07	00 /	00 00		100	00 (0 00		04 0	+	\vdash	$-\!\!\!+\!\!\!\!-$	

- 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.

Appendix 4.7 Sample Calculation of Construction Noise Levels - Mitigated Scenario

NSR: N13 - Belle House Scenario: Mitigated -

		Work ^[1] Site		Dist [2]		Building					2011								2012									2013							014	
Package	Construction Activity	No.	SWL	(m)	SPL [3]	Screenin	g Jai	n Feb Ma	ar Apr	May	Jun Jul	Aug S	Sep Oct	Nov D	ec Jan	Feb M	ar Apr	May	Jun Ju	I Aug	Sep (Oct Nov	Dec	Jan F	eb Ma	ar Apr	May .	Jun .	Jul Aug	Sep (Oct Nov	Dec	Jan F	eb Mai	Apr	May Ju
							1	n Feb Ma	4	5	6 7	8	9 10	11 1	2 13	14 1	5 16	17	18 1	20	21	22 23	24	25 2	26 27	7 28	29	30	31 32	33	34 35	36	37 3	8 39	40	41 42
Construction Works (under Project																																			
Protection	Protection Work for CWB at CBTS																																			
Works at CBTS	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																														
Mooring Site at SE Corner of CBTS	Temporary Relocation of Mooring Space at SE Corner of CBTS Mobilization [#] Dredging of SE Corner	1507	112	76	70	0										70 7	0 70																			
	Dreaging of SE Conner	1307	113	70	10	"									-	10 1	0 70	+									+ +									
Temporary Relocation of Jetty	Temporary Relocation of Jetty Mobilization [#] Construction of New Temporary Jetty Demolition of CWB Temporary Jetty Demolition of Temporary Jetty	1504 1505 1504	115	736 816 736	55 52 52	0 0 0																														
	Remarks: [#] Mobilization does not involve construction activity.	Noise Level (SCL I																															-			

- 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.