Appendix 4.4 Sample Calculation of Construction Noise Levels - Unmitigated Scenario

▼

NSR: CH1 - Hoi Deen Court

Scenario: Unmitigated 🔻

		Work [1] Site		Dist ^[2]		Building					2011									2012									201	3					2	014	
Package	Construction Activity	No.	SWL		SPL [3]		Jan	Feb M	ar Apr	Mav	Jun Ju	Aua	Sep O	Oct No	v Dec	Jan I	Feb Ma	ar Apr	Mav	Jun Ju	Aua	Sep C	ct Nov	Dec	Jan I	Feb M	lar Ap	Mav	Jun	Jul Au	a Sep	Oct No	ov Dec	Jan F	eb Ma	Apr	Mav Jun
, v				. ,		Screening	1	2 3	3 4	5	6 7	8	9 1	10 11	12	13	14 1	5 16	17	18 19	20	21 2	2 23	24	25	26 2	27 28	29	30	31 32	2 33	34 3	5 36	37	38 39	40	41 42
Construction Works u			•		•	•								•	·								•			•	•									•	
	Protection Work for CWB at CBTS																																				
Works at CBTS	Dredging (= Removal Temp. Seawall)	1501	117	95	73	0													73																		1
	Temporary Seawall Construction	1501	117	95	72	0														72																	
	Filling behind Temporary Seawall	1501	119	95	75	0														75	75																1
	Diaphragm Wall Construction	1502	129	167	79	0														79	79	79 7	9 79	79													
	Excavation	1502	131	167	82	0																		82	82	82 8	32 82										
	Construction of Tunnel Box Structure	1502	123	167	74	0																				74 7	74 74	74	74	74 74							
	Backfill	1502	125	167	76	0																									76	76 7	6				
	Construction of Temporary Seawall for Retained Reclamation	1502	115	167	65	0																										6	5				
1	Removal Temp. Reclamation (= Dredging)	1501	117	95	73	0																											73				
Mooring Site at SE Corner of CBTS	Temporary Relocation of Mooring Space at SE Corner of CBTS Mobilization ^[#]													-				-																	+		<u> </u>
	Dredging of SE Corner	1507	113	669	51	0												_																	_		<u> </u>
Temporary Relocation of	Temporary Relocation of Jetty Mobilization ^[#]																																		+		
Jetty	Construction of New Temporary Jetty	1504	117	269	64	0											64																				
	Demolition of CWB Temporary Jetty	1505	121	105	75	0											75	5																			
	Demolition of Temporary Jetty	1504	121	269	67	0																						\square							67		\vdash
	Remarks: [#] Mobilization does not involve construction activity.																																		<u> </u>		
	Overall Noise Le	evel (SCL F	Protectio	on Work	is. Lea (3	0min), dB(A)	-			-		-	-		-	-	64 7	5 -	73	72 80	80	79 7	9 79	84	82	83 8	33 83	74	74	74 74	76	76 7	6 73	-	- 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.

Appendix 4.4 Sample Calculation of Construction Noise Levels - Unmitigated Scenario

▼

NSR: CH4 - Marco Polo Mansion

Scenario: Unmitigated 🔻

		Work [[] Site		Dist ^[2]		Building				20								2012									201							2014	
Package	Construction Activity	No.	SWL	(m)	SPL [3]	Screenin	g Jan F	eb Mar	Apr M	ay Jun	Jul Aug	Sep O	ct Nov D	ec Ja	n Feb	Mar A	or May	Jun J	ul Aug	Sep O	ct Nov	Dec	Jan F	eb Ma	ar Apr	May	Jun	Jul Au	g Sep	Oct No	ov Dec	Jan I	eb Ma	ar Apr	May Ju
							1	2 3	4 5	56	7 8	9 1	0 11	12 13	3 14	15 1	6 17	18 1	9 20	21 2	2 23	24	25 2	26 27	7 28	29	30	31 32	33	34 3	5 36	37	38 35	9 40	r May Jui 41 42
Construction Works (
Protection	Protection Work for CWB at CBTS																																		
Works at CBTS	Dredging (= Removal Temp. Seawall)	1501	117	155	68	0											68																		
	Temporary Seawall Construction	1501	117	155	68	0												68																	
	Filling behind Temporary Seawall	1501	119	155	71	0													1 71																
	Diaphragm Wall Construction	1502	129	237	76	0												7	6 76	76 7	6 76														
	Excavation	1502	131	237	79	0																79			79										
	Construction of Tunnel Box Structure	1502	123	237	71	0																	7	71 71	1 71	71	71	71 71							
	Backfill	1502	125	237	73	0																							73	73 7					
	Construction of Temporary Seawall for Retained Reclamation	1502	115	237	62	0																								6	2				
	Removal Temp. Reclamation (= Dredging)	1501	117	155	68	0																									68				
Mooring Site at	Temporary Relocation of Mooring Space at SE Corner of CBTS																																		
SE Corner of CBTS	Mobilization [#]																																		
	Dredging of SE Corner	1507	113	428	55	0																													
Temporary	Temporary Relocation of Jetty										-																								+
Relocation of	Mobilization [#]																																		
Jetty	Construction of New Temporary Jetty	1504	117	307	63	0																													
	Demolition of CWB Temporary Jetty	1505	121		67	0										67																	-		
	Demolition of Temporary Jetty	1504	121	307	66	0																													
	Remarks:														_		_		_						_				_				+	_	+-+
	[#] Mobilization does not involve construction activity.																																_		
	Overall Noise	e Level (SCI	Protecti	on Work	s. Lea (3	30min), dB(- I					-		. .	-	67	68	68 7	7 77	76 7	6 76	81	79 8	30 80) 80	71	71	71 71	73	73 7	3 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.

Appendix 4.4 Sample Calculation of Construction Noise Levels - Unmitigated Scenario

▼

NSR: N13 - Belle House

Scenario: Unmitigated 💌

		Work ^[1] Site		Dist ^[2]		Building				2011 2012									2013									2014							
Package	Construction Activity	No.	SWL	(m)	SPL [3]	Screening	Jan	Feb Ma	ar Apr	May J	lun Jul	Aug	Sep O	t Nov	Dec J	lan Feb	Mar	Apr Ma	y Jun	Jul Aug	J Sep	Oct No	v Dec	Jan Fe	b Mar	Apr M	lay Jur	Jul A	ug Sep	Oct N	Nov Dec	Jan F	eb Mar	Apr N	lay Jun
						Screening	1	2 3	4	5	6 7	8	9 1	0 11	12 1	13 14	15	16 17	18	19 20	21	22 23	24	25 26	5 27	28 2	29 30	31 3	32 33	34	35 36	37	38 39	40	41 42
Construction Works																																			
Protection	Protection Work for CWB at CBTS																																		
Works at CBTS	Dredging (= Removal Temp. Seawall)	1501	117	635	56	0																													
	Temporary Seawall Construction	1501	117	635	56	0																													
	Filling behind Temporary Seawall	1501	119	635	58	0																													
	Diaphragm Wall Construction	1502	129	724	66	0																													
	Excavation	1502	131	724	69	0																													
	Construction of Tunnel Box Structure	1502	123	724	61	0																													
	Backfill	1502	125	724	63	0																													
	Construction of Temporary Seawall for Retained Reclamation	1502	115	724	52	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																																<u> </u>		
SE Corner of CBTS	Mobilization ^[#]																						_		_										
	Dredging of SE Corner	1507	113	76	70	0							_			70	70	70	+ +			_													
Temporary	Temporary Relocation of Jetty																																		
Relocation of	Mobilization [#]																																		
Jetty	Construction of New Temporary Jetty	1504	117	736	55	0																											-		
, i	Demolition of CWB Temporary Jetty	1505	121	816	58	0																											-		
	Demolition of Temporary Jetty	1504	121	736	58	0																													
	Remarks:																																_		
	[#] Mobilization does not involve construction activity.																																		
L	A			m Mast		and and a second second										70	70	70															<u> </u>		
	Overall Noise Le	evel (SCL I	rotectio	on work	s, Leq (3	лтт), ав(A)	-		-	-		-		-	-	- 70	70	10 -	-		-		-		-	-		-		-		-		-	

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.