

Appendix 4.6 Mitigated Construction Noise Impact of Reprovisioning Option A

Noise Sensitive Receiver						2015				2016				2017				2018				2019				2020				2021							
KT-N1 - Cheong Kat Mansion	SWL	Dist.(m) ¹	DC ²	FC ³	CNL, dB(A)	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4				
Kennedy Town CDA Decontamination Works																																					
Stage 1																																					
Preliminaries	107	42	41	3	69																																
Excavate and Cement Solidification at Zone 1C	107	48	42	3	68																																
Excavate and Cement Solidification at Zone 1A	107	282	57	3	53																																
Foundation for Biopiles at Zone 3	107	228	55	3	55																																
Form Biopile at Zone 3	105	228	55	3	53																																
Operate Biopile at Zone 3	101	228	55	3	49																																
Decommission Biopile at Zone 3	103	228	55	3	51																																
Reinstate Zone 1C	107	48	42	3	68																																
Reinstate Zone 1A	107	282	57	3	53																																
Reprovision RCP (by others)	104	297	57	3	50																																
Reprovision Car Park (by others)	104	90	47	3	60																																
Excavate and Cement Solidification at Zone 1B	107	114	49	3	61																																
Form Biopile at Zone 3	105	228	55	3	53																																
Operate Biopile at Zone 3	101	228	55	3	49																																
Decommission Biopile at Zone 3	103	228	55	3	51																																
Reinstate Zone 1B	107	114	49	3	61																																
Excavate and Cement Solidification at Zone 2	107	153	52	3	58																																
Form Biopile at Zone 3	105	228	55	3	53																																
Operate Biopile at Zone 3	101	228	55	3	49																																
Decommission Biopile at Zone 3	103	228	55	3	51																																
Reinstate Zone 2	107	153	52	3	58																																
Excavate and Cement Solidification at Zone 3	107	228	55	3	55																																
Foundation for Biopiles at Zone 2	107	153	52	3	58																																
Form Biopile at Zone 2	105	153	52	3	56																																
Operate Biopile at Zone 2	101	153	52	3	52																																
Mitigated Noise Impact, dB(A)																																					
Planned Residential Development at the Ka Wai Man Road and Ex-mount Davis Cottage Area																																					
Activity 1 - Demolition	107	360	59	3	51																																
Activity 2 - Foundation	107	360	59	3	51																																
Activity 3 - Sub-structure	110	360	59	3	54																																
Activity 4 - Superstructure	109	360	59	3	53																																
Cumulative Noise Impact, dB(A)																																					
Noise Sensitive Receiver																																					
KT-N1 - Cheong Kat Mansion	SWL	Dist.(m) ¹	DC ²	FC ³	CNL, dB(A)	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4				
Kennedy Town CDA Decontamination Works																																					
Operate Biopile at Zone 2	101	153	52	3	52																																
Decommission Biopile at Zone 2	103	153	52	3	54																																
Reinstate Zone 3 and remaining works	107	228	55	3	55																																
Reprovision Temporary Garden (by others)	104	237	55	3	52																																
Stage 2																																					
Excavate and Cement Solidification at Zone 4	107	42	41	3	69																																
Excavate and Cement Solidification at Zone 5A	107	87	47	3	63																																
Excavate and Cement Solidification at Zone 5B	107	93	47	4	64																																
Reinstate Zone 4	107	42	41	3	69																																
Foundation for Biopiles at Zone 4	107	42	41	3	69																																
Form Biopile at Zone 4	105	42	41	3	67																																
Operate Biopile at Zone 4	101	42	41	3	63																																
Decommission Biopile at Zone 4	103	42	41	3	65																																
Reinstate Zone 4	107	42	41	3	69																																
Form Biopile at Zone 4	105	42	41	3	67																																
Operate Biopile at Zone 4	101	42	41	3	63																																
Decommission Biopile at Zone 4	103	42	41	3	65																																
Reinstate Zone 5A and remaining works	107	87	47	3	63																																
Reinstate Zone 5B and remaining works	107	93	47	3	63																																
Mitigated Noise Impact, dB(A)																																					
Planned Development within the Kennedy Town CDA Site																																					
Activity 1 - Demolition	107	195	54	3	56																																
Activity 2 - Foundation	107	195	54	3	56																																
Activity 3 - Sub-structure	110	195	54	3	59																																

Noise Sensitive Receiver						2015				2016				2017				2018				2019				2020				2021																		
KT-N4 - Cayman Rise	SWL	Dist.(m) ¹	DC ²	FC ³	CNL, dB(A)	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4															
Kennedy Town CDA Decontamination Works																																																
Stage 1																																																
Preliminaries	107	60	44	3	66																																											
Excavate and Cement Solidification at Zone 1C	107	156	52	3	58																																											
Excavate and Cement Solidification at Zone 1A	107	138	51	3	59																																											
Foundation for Biopiles at Zone 3	107	90	47	3	63																																											
Form Biopile at Zone 3	105	90	47	3	61																																											
Operate Biopile at Zone 3	101	90	47	3	57																																											
Decommission Biopile at Zone 3	103	90	47	3	59																																											
Reinstate Zone 1C	107	156	52	3	58																																											
Reinstate Zone 1A	107	138	51	3	59																																											
Reprovision RCP (by others)	104	168	53	3	54																																											
Reprovision Car Park (by others)	104	192	54	3	53																																											
Excavate and Cement Solidification at Zone 1B	107	123	50	3	60																																											
Form Biopile at Zone 3	105	90	47	3	61																																											
Operate Biopile at Zone 3	101	90	47	3	57																																											
Decommission Biopile at Zone 3	103	90	47	3	59																																											
Reinstate Zone 1B	107	123	50	3	60																																											
Excavate and Cement Solidification at Zone 2	107	60	44	3	66																																											
Form Biopile at Zone 3	105	90	47	3	61																																											
Operate Biopile at Zone 3	101	90	47	3	57																																											
Decommission Biopile at Zone 3	103	90	47	3	59																																											
Reinstate Zone 2	107	60	44	3	66																																											
Excavate and Cement Solidification at Zone 3	107	90	47	3	63																																											
Foundation for Biopiles at Zone 2	107	60	44	3	66																																											
Form Biopile at Zone 2	105	60	44	3	64																																											
Operate Biopile at Zone 2	101	60	44	3	60																																											
Mitigated Noise Impact, dB(A)																																																
Planned Residential Development at the Ka Wai Man Road and Ex-mount Davis Cottage Area																																																
Activity 1 - Demolition	107	165	52	3	58																																											
Activity 2 - Foundation	107	165	52	3	58																																											
Activity 3 - Sub-structure	110	165	52	3	61																																											
Activity 4 - Superstructure	109	165	52	3	60																																											
Cumulative Noise Impact, dB(A)																																																
Noise Sensitive Receiver																																																
						2022				2023				2024				2025				2026				2027				2028																		
KT-N4 - Cayman Rise	SWL	Dist.(m) ¹	DC ²	FC ³	CNL, dB(A)	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4							
Kennedy Town CDA Decontamination Works																																																
Operate Biopile at Zone 2	101	60	44	3	60																																											
Decommission Biopile at Zone 2	103	60	44	3	62																																											
Reinstate Zone 3 and remaining works	107	90	47	3	63																																											
Reprovision Temporary Garden (by others)	104	141	51	3	56																																											
Stage 2																																																
Excavate and Cement Solidification at Zone 4	107	126	50	3	60																																											
Excavate and Cement Solidification at Zone 5A	107	105	48	3	62																																											
Excavate and Cement Solidification at Zone 5B	107	81	46	4	65																																											
Reinstate Zone 4	107	126	50	3	60																																											
Foundation for Biopiles at Zone 4	107	126	50	3	60																																											
Form Biopile at Zone 4	105	126	50	3	58																																											
Operate Biopile at Zone 4	101	126	50	3	54																																											
Decommission Biopile at Zone 4	103	126	50	3	56																																											

Noise Sensitive Receiver						2015				2016				2017				2018				2019				2020				2021						
KT-N5 - Bayanihan Kennedy Town Centre	SWL	Dist.(m) ¹	DC ²	FC ³	CNL, dB(A)	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
Kennedy Town CDA Decontamination Works																																				
Stage 1																																				
Preliminaries	107	87	47	3	63				63	63																										
Excavate and Cement Solidification at Zone 1C	107	270	57	3	53					53	53	53	53	53																						
Excavate and Cement Solidification at Zone 1A	107	87	47	3	63				63	63	63	63	63	63																						
Foundation for Biopiles at Zone 3	107	87	47	3	63				63	63																										
Form Biopile at Zone 3	105	87	47	3	61					61	61	61																								
Operate Biopile at Zone 3	101	87	47	3	57							57	57	57	57																					
Decommission Biopile at Zone 3	103	87	47	3	59																															
Reinstate Zone 1C	107	270	57	3	53								53	53																						
Reinstate Zone 1A	107	87	47	3	63								63	63																						
Reprovision RCP (by others)	104	108	49	3	58									58	58	58	58	58	58	58																
Reprovision Car Park (by others)	104	285	57	3	50									50	50																					
Excavate and Cement Solidification at Zone 1B	107	213	55	3	55				55	55	55	55																								
Form Biopile at Zone 3	105	87	47	3	61												61	61	61																	
Operate Biopile at Zone 3	101	87	47	3	57																															
Decommission Biopile at Zone 3	103	87	47	3	59																															
Reinstate Zone 1B	107	213	55	3	55												55	55																		
Excavate and Cement Solidification at Zone 2	107	135	51	3	59																															
Form Biopile at Zone 3	105	87	47	3	61																															
Operate Biopile at Zone 3	101	87	47	3	57																															
Decommission Biopile at Zone 3	103	87	47	3	59																															
Reinstate Zone 2	107	135	51	3	59																															
Excavate and Cement Solidification at Zone 3	107	87	47	3	63																															
Foundation for Biopiles at Zone 2	107	135	51	3	59																															
Form Biopile at Zone 2	105	135	51	3	57																															
Operate Biopile at Zone 2	101	135	51	3	53																															
Mitigated Noise Impact, dB(A)									63	68	68	66	66	67	67	63	63	63	64	61	63	61	65	63	62	57	57	57	64	66	64	64	63	53		
Planned Residential Development at the Ka Wai Man Road and Ex-mount Davis Cottage Area																																				
Activity 1 - Demolition	107	90	47	3	63				63																											
Activity 2 - Foundation	107	90	47	3	63				63	63	63	63	63	63	63	63																				
Activity 3 - Sub-structure	110	90	47	3	66																															
Activity 4 - Superstructure	109	90	47	3	65																															
Cumulative Noise Impact, dB(A)									66	69	69	68	68	69	69	66	66	66	68	67	68	67	68	68	68	67	66	66	65	65	65	65	65	65	65	
Noise Sensitive Receiver																																				
KT-N5 - Bayanihan Kennedy Town Centre						2022				2023				2024				2025				2026				2027				2028						
Kennedy Town CDA Decontamination Works																																				
Operate Biopile at Zone 2	101	135	51	3	53	53	53																													
Decommission Biopile at Zone 2	103	135	51	3	55																															
Reinstate Zone 3 and remaining works	107	87	47	3	63				63	63																										
Reprovision Temporary Garden (by others)	104	132	50	3	57																															
Stage 2																																				
Excavate and Cement Solidification at Zone 4	107	258	56	3	54																															
Excavate and Cement Solidification at Zone 5A	107	216	55	3	55																															
Excavate and Cement Solidification at Zone 5B	107	195	54	4	57																															
Reinstate Zone 4	107	258	56	3	54																															
Foundation for Biopiles at Zone 4	107	258	56	3	54																															
Form Biopile at Zone 4	105	258	56	3	52																															
Operate Biopile at Zone 4	101	258	56	3	48																															
Decommission Biopile at Zone 4	103	258	56	3	50																															
Reinstate Zone 4	107	258	56	3	54																															
Form Biopile at Zone 4	105	258	56	3	52																															
Operate Biopile at Zone 4	101	258	56	3	48																															
Decommission Biopile at Zone 4	103	258	56	3	50																															
Reinstate Zone 5A and remaining works	107	216	55	3	55																															
Reinstate Zone 5B and remaining works	107	195	54	3	56																															
Mitigated Noise Impact, dB(A)						53	64	64	57	57	57	57	57	57	57	62	61	61	61	61	53	48	48	56	57	52	48	48	48	52	59	59				
Planned Development within the Kennedy Town CDA Site																																				
Activity 1 - Demolition	107	72	45	3	65	65	65																													
Activity 2 - Foundation	107	72	45	3	65																															
Activity 3 - Sub-structure	110	72	45	3	68		</																													

Noise Sensitive Receiver						2015				2016				2017				2018				2019				2020				2021									
KT-N7 - Lui Ming Choi Memorial Primary School	SWL	Dist.(m) ¹	DC ²	FC ³	CNL, dB(A)	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4						
Kennedy Town CDA Decontamination Works																																							
Stage 1																																							
Preliminaries	107	81	46	3	64																																		
Excavate and Cement Solidification at Zone 1C	107	195	54	3	56					56	56	56	56	56																									
Excavate and Cement Solidification at Zone 1A	107	129	50	3	60					60	60	60	60	60																									
Foundation for Biopiles at Zone 3	107	84	46	3	64					64																													
Form Biopile at Zone 3	105	84	46	3	62					62	62	62																											
Operate Biopile at Zone 3	101	84	46	3	58							58	58	58	58																								
Decommission Biopile at Zone 3	103	84	46	3	60											60																							
Reinstate Zone 1C	107	195	54	3	56									56	56																								
Reinstate Zone 1A	107	129	50	3	60									60	60																								
Reprovision RCP (by others)	104	156	52	3	55									55	55	55	55	55	55	55																			
Reprovision Car Park (by others)	104	228	55	3	52									52	52																								
Excavate and Cement Solidification at Zone 1B	107	153	52	3	58					58	58	58	58																										
Form Biopile at Zone 3	105	84	46	3	62													62	62	62																			
Operate Biopile at Zone 3	101	84	46	3	58																58	58	58	58															
Decommission Biopile at Zone 3	103	84	46	3	60																					60													
Reinstate Zone 1B	107	153	52	3	58									58	58																								
Excavate and Cement Solidification at Zone 2	107	81	46	3	64																				64	64													
Form Biopile at Zone 3	105	84	46	3	62																				62	62	62												
Operate Biopile at Zone 3	101	84	46	3	58																																		
Decommission Biopile at Zone 3	103	84	46	3	60																																		
Reinstate Zone 2	107	81	46	3	64																																		
Excavate and Cement Solidification at Zone 3	107	84	46	3	64																																		
Foundation for Biopiles at Zone 2	107	81	46	3	64																																		
Form Biopile at Zone 2	105	81	46	3	62																																		
Operate Biopile at Zone 2	101	81	46	3	58																																		
Mitigated Noise Impact, dB(A)										64	68	68	66	66	66	66	66	63	64	64	64	60	65	65	67	66	63	58	58	58	68	69	66	66	65	58			
Planned Residential Development at the Ka Wai Man Road and Ex-mount Davis Cottage Area																																							
Activity 1 - Demolition	107	138	51	3	59																																		
Activity 2 - Foundation	107	138	51	3	59					59	59	59	59	59	59	59	59																						
Activity 3 - Sub-structure	110	138	51	3	62																																		
Activity 4 - Superstructure	109	138	51	3	61																																		
Cumulative Noise Impact, dB(A)										65	69	68	66	67	67	67	65	65	65	66	64	67	67	68	68	66	63	63	63	69	69	67	67	66	63				
Noise Sensitive Receiver																																							
KT-N7 - Lui Ming Choi Memorial Primary School																																							
Kennedy Town CDA Decontamination Works																																							
Operate Biopile at Zone 2	101	81	46	3	58	58	58																																
Decommission Biopile at Zone 2	103	81	46	3	60					60	60																												
Reinstate Zone 3 and remaining works	107	84	46	3	64					64	64																												
Reprovision Temporary Garden (by others)	104	144	51	3	56																																		
Stage 2																																							
Excavate and Cement Solidification at Zone 4	107	165	52	3	58																																		
Excavate and Cement Solidification at Zone 5A	107	138	51	3	59																																		
Excavate and Cement Solidification at Zone 5B	107	117	49	4	62																																		
Reinstate Zone 4	107	165	52	3	58																																		
Foundation for Biopiles at Zone 4	107	165	52	3	58																																		
Form Biopile at Zone 4	105	165	52	3	56																																		
Operate Biopile at Zone 4	101	165	52	3	52																																		
Decommission Biopile at Zone 4	103	165	52	3	54																																		
Reinstate Zone 4	107	165	52	3	58																																		
Form Biopile at Zone 4	105	165	52	3	56																																		
Operate Biopile at Zone 4	101	165	52	3	52																																		
Decommission Biopile at Zone 4	103	165	52	3	54																																		
Reinstate Zone 5A and remaining works	107	138	51	3	59																																		
Reinstate Zone 5B and remaining works	107	117	49	3	61																																		
Mitigated Noise Impact, dB(A)						58	66	66	56	56	56	56	56	56	56	65	66	66	66	65	57	52																	

Noise Sensitive Receiver						2022				2023				2024				2025				2026				2027				2028						
KT-N10 - Planned Residential Development	SWL	Dist.(m) ¹	DC ²	FC ³	CNL, dB(A)	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
Kennedy Town CDA Decontamination Works																																				
Satge 2																																				
Excavate and Cement Solidification at Zone 4	107	93	47	3	63											63	63	63	63	63																
Excavate and Cement Solidification at Zone 5A	107	51	42	3	68											68	68	68	68	68																
Excavate and Cement Solidification at Zone 5B	107	51	42	4	69											69	69	69	69	69																
Reinstate Zone 4	107	93	47	3	63											63	63																			
Foundation for Biopiles at Zone 4	107	93	47	3	63															63																
Form Biopile at Zone 4	105	93	47	3	61																61	61														
Operate Biopile at Zone 4	101	93	47	3	57																	57	57	57	57											
Decommission Biopile at Zone 4	103	93	47	3	59																		59	59												
Reinstate Zone 4	107	93	47	3	63																		63	63												
Form Biopile at Zone 4	105	93	47	3	61																		61	61												
Operate Biopile at Zone 4	101	93	47	3	57																				57	57	57									
Decommission Biopile at Zone 4	103	93	47	3	59																							59								
Reinstate Zone 5A and remaining works	107	51	42	3	68																									68	68					
Reinstate Zone 5B and remaining works	107	51	42	3	68																									68	68					
Mitigated Noise Impact, dB(A)																72	73	73	73	72	62	57	57	65	66	61	57	57	57	61	71	71				
Planned Development within the Kennedy Town CDA Site																																				
Activity 1 - Demolition	107	45	41	3	69																															
Activity 2 - Foundation	107	45	41	3	69																															
Activity 3 - Sub-structure	110	45	41	3	72																															
Activity 4 - Superstructure	109	45	41	3	71											71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71			
Cumulative Noise Impact, dB(A)																75	75	75	75	75	72	71	71	72	72	71	71	71	71	71	74	74				

Remarks:
1. Slant distance is adopted for the construction noise assessment
2. Distance correction in dB(A)
3. Facade correction in dB(A)
4. First population intake of NSR KT-N10 is assumed in Year 2024 .
Bold figures denote exceedance of relevant noise criteria

Noise Sensitive Receiver						2022				2023				2024				2025				2026				2027				2028						
KT-N11 - Planned Residential Development	SWL	Dist.(m) ¹	DC ²	FC ³	CNL, dB(A)	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
Kennedy Town CDA Decontamination Works																																				
Satge 2																																				
Excavate and Cement Solidification at Zone 4	107	99	48	3	62											62	62	62	62	62																
Excavate and Cement Solidification at Zone 5A	107	66	44	3	66											66	66	66	66	66																
Excavate and Cement Solidification at Zone 5B	107	42	40	4	71											71	71	71	71	71																
Reinstate Zone 4	107	99	48	3	62															62	62															
Foundation for Biopiles at Zone 4	107	99	48	3	62																62															
Form Biopile at Zone 4	105	99	48	3	60																	60	60													
Operate Biopile at Zone 4	101	99	48	3	56																		56	56	56	56										
Decommission Biopile at Zone 4	103	99	48	3	58																							58	58							
Reinstate Zone 4	107	99	48	3	62																															
Form Biopile at Zone 4	105	99	48	3	60																							60	60							
Operate Biopile at Zone 4	101	99	48	3	56																								56	56	56					
Decommission Biopile at Zone 4	103	99	48	3	58																															
Reinstate Zone 5A and remaining works	107	66	44	3	66																													66	66	
Reinstate Zone 5B and remaining works	107	42	40	3	70																													70	70	
Mitigated Noise Impact, dB(A)																73	73	73	73	73	61	56	56	64	65	60	56	56	56	60	71	71				
Planned Development within the Kennedy Town CDA Site																																				
Activity 1 - Demolition	107	48	42	3	68																															
Activity 2 - Foundation	107	48	42	3	68																															
Activity 3 - Sub-structure	110	48	42	3	71																															
Activity 4 - Superstructure	109	48	42	3	70											70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70			
Cumulative Noise Impact, dB(A)																74	75	75	75	75	71	70	70	71	71	70	70	70	70	70	74	74				

Remarks:
1. Slant distance is adopted for the construction noise assessment
2. Distance correction in dB(A)
3. Facade correction in dB(A)
4. First population intake of NSR KT-N11 is assumed in Year 2024 .
Bold figures denote exceedance of relevant noise criteria