Kam Sheung Road Station (KSR) & C&C Tunnel from Pat Heung Depot to KSR

Project : Consultancy Agreement No. C1603 EIA Study for Northern Link

Title: Construction Noise Calculation (Kam Sheung Road Station (KSR) & C&C Tunnel from PHD to KSR) Scenario: Mitigated Scenario

							20	25											2026	3										2027	7				—
		1	2	3		5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9 1	0 1	1 12	2 1	2	3	4	5	6	7 8	8 9	10) 11	ľ
Site Clearance, Preparation & Monitoring (KSR)	104				104	104	104	104	104	104																									
Site Formation (RE Wall Modification (KSR 14-16))	111									111	111	111	111	111	111	111	111 1	111 1	11 1	11 1	11 1	11 1 ⁻	11 1 ⁻	11 11	1 11	1 11	1								
Site Formation (TWR Underpass (KSR 12-14))	110																								110) 110	0 110	110	110	110 1	110 11	10 11	0 11	0 110) 1
D-wall, Piling and Excavation (KSR 1-12)	101								101	101	101	101	101	101	101	101	101 1	101 1	01 1	01 1	01 1	01 10	01 10	01 10	11 10°	1 10	1 101	1 101	101	101 1	101 10)1 10	1 10	1 101	1
D-wall, Piling and Excavation (KSR 12-33)	110				110	110	110	110	110	110	110	110	110	110	110	110	110 1	110 1	10 1	10 1	10 1	10 1°	10 1 ⁻	10 11	0 110) 110	0 110	110	110	110 1	110 11	10 11	0 11	0 110) 1
D-wall, Piling and Excavation (KSR 33-39)	105												105	105	105	105	105 1	105 1	05 1	05 1	05 1	05 10	05 10	05 10	5 10	5 10	5 105	5 105	105	105 1	105 10	05 10	5 10	5 105	5 1
RC Works (KSR 1-12)	103																														\top				Т
RC Works (KSR 1-12 Sub Zone 1)	97																											1 1							+
RC Works (KSR 1-12 Sub Zone 2)	97																											1 1			+	+	+	+	+
RC Works (KSR 1-12 Sub Zone 3)	97																				+							+			+	+	+	+	+
RC Works (KSR 12-33)	108																									108	8 108	3 108	108	108 1	108 10	08 10	10	8 108	3 1
RC Works (KSR 33-39)	104												+	\dashv				-	-	+		+		-		100	100	130	.00	.00	30 10	100	- 100	7 100	#
	97																		+	+	+	-	-	+	+			+			+	+	+	+	+
Structural Steel Works (KSR 16-33)													-			-			+	-					-	-		+			+	+	+	+-	+
UU and Road Works (KSR Ext A)	105																		-	_		_		_	_	-	_	+			+	_	_	_	+
Bicycle Parking Bays (KSR Ext B)	103																		\perp		\perp			\perp			\perp	\perp							⊥
C&C Tunnel: PHD to KSR incl. Southern Extension Tunnel (PHDKSR-1)	101								101	101	101	101	101	101	101	101	101 1	101 1	01 1	01 1	01 1	01 10	01 10)1 10	10	1 10	1 101	1 101	101	101 1	101 10)1 10	1 10	1 101	1
C&C Tunnel: PHD to KSR incl. Southern Extension Tunnel (PHDKSR-2)	99								99	99	99	99	99	99	99	99	99	99 9	99	99 9	99	99 9	9 9	9 99	9 99	99	99	99	99	99	99 99	99	9 99	99	
C&C Tunnel: PHD to KSR incl. Southern Extension Tunnel (PHDKSR-3)	101								101	101	101	101	101	101	101	101	101 1	101 1	01 1	01 1	01 1	01 10	01 10)1 10	10	1 10	1 101	1 101	101	101 1	101 10)1 10	1 10	1 101	1
C&C Tunnel: PHD to KSR incl. Southern Extension Tunnel (PHDKSR-4) (Eastern)	95								95	95	95	95	95	95	95	95	95	95 9	95 !	95 9	95	95 9	95 9	5 95	5 95	95	95	95	95	95	95 9	95	5 95	5 95	
C&C Tunnel: PHD to KSR incl. Southern Extension Tunnel (PHDKSR-4) (Western)	99								99	99	99	99	99	99	99	99	99	99 9	99 !	99 9	99	99 9	9 9	9 99	9 99	99	99	99	99	99	99 99	99	9 99	99	
C&C Tunnel: Backfilling (PHDKSR-1 to PHDKSR-4)	101																														\top			1	Т
KSR - Backfilling (KSR 12-14)	101																											1 1			\top		+	+	\dagger
																																<u> </u>			
Predicted Construction Noise, dB(A)																												+				\rightarrow	—		4
NAP PHD-E1	Max 55	0	0	0	0	0	0	0	55	55	55	55	55	55	55	55	55	55 5	55 :	55 5	55	55 5	55 5	5 55	5 55	55	5 55	55	55	55	55 5	55 55	5 55	5 55	+
PHDKSR-E1	57	0	0	0	_	0	0	0	57		57			57		57		57 5				57 5							57		57 5		7 57		
PHDKSR-P1	66	0	0	0	0	0	0	0	66	66	66	66			_							66 6		6 66		_	_				66 66				_
PHDKSR-P2	67	0	0	0	50		,	50			67											67 6				_	_				67 6				_
PHDKSR-P3	67	0	0				52			67		67					67			67 (67 6				_	_			67	67 6				_
KSR-P1	65																								65	65	64	64	64	64	64 64	64	4 64	1 64	
KSR-P2	75																								73	74	73	73	73	73	73 73	3 73	3 73	3 73	
KSR-P3	66																								66	66	65	65	65	65	65 6	65 65	5 65	65	
KSR-P4	68																								67						66 66				_
KSR-P5	73																								72	_	71				71 7		_		_
KSR-P6	68																								67						68 68				
KSR-P7	67																_								66	67	66	66	66	66	66 66	6 66	6 66	66	\bot
KSR-P8	70				0.4	0.4	0.4	0.4	0.4	2.4			20	20	20		20	20	20								0.5	4	00	20					4
KSR-E1 Notes:	63	0	0	0	61	61	61	61	61	61	58	58	62	62	62	62	62	02 (62 (62 (32	62 6	2 6	2 62	2 62	63	63	63	63	63	63 63	63	3 63	63	丄

Notes:

1. As a worst case scenario, the predicted construction noise is calculated using the distance between the notional centre of the workfront to the NAP.

⁻ Distance Attenuation, in dB(A) = - 20 log D - 8 (where D is the distance in metres).

⁻ A +3 dB(A) façade correction was added to the predicted noise level to account for the façade effect at the NAP.
2. "RC Works (KSR 12-33)" and "RC Works (KSR 33-39)" will not take place concurrently. The worst case is

adopted for calculation.

3. "C&C Tunnel: PHD to KSR incl. Southern Extension Tunnel" and "C&C Tunnel: PHD to KSR incl. Southern

Extension Tunnel - Backfilling" will not take place concurrently. The worst case is adopted for calculation.

4. Text in bold and underline denotes exceedance of relevant criterion (text in orange cell denotes exceedance

for school during examination period).

^{5.} Cell with shaded area denotes the unoccupancy of the NSR (i.e. before the population intake).

Project : Consultancy Agreement No. C1603 EIA Study for Northern Link

Title: Construction Noise Calculation (Kam Sheung Road Station (KSR) & C&C Tunnel from PHD to KSR) Scenario: Mitigated Scenario

							202	!8										20	29										20	030				
		1	2	3	4	5	6		8	9	10	11	12 1	1 2	2 3	4	5	6	7	8	9	10	11	12	1	2	3	4 5			8	9	10	11
Site Clearance, Preparation & Monitoring (KSR)	104																															,		
Site Formation (RE Wall Modification (KSR 14-16))	111																																	
Site Formation (TWR Underpass (KSR 12-14))	110	110																																
D-wall, Piling and Excavation (KSR 1-12)	101	101	101	101	101	101	101	101	101	101 1	101 1	01																						
D-wall, Piling and Excavation (KSR 12-33)	110	110	110	110	110	110	110	110	110	110 1	110 1	10 1	110 11	10 11	10 110	0															+			\rightarrow
D-wall, Piling and Excavation (KSR 33-39)	105				105																							-			+-			\pm
RC Works (KSR 1-12)	103												103 10	03 10	3 10:	3 103	103	103	103	103	103	103	103	103 1	03	103	103	103 103	3 103	103	103		+	\rightarrow
RC Works (KSR 1-12 Sub Zone 1)	97						-				-		_	7 9	_	_	97	97	97	97	_	_			_		_	97 97		_		\vdash	$\vdash \vdash$	+
									-		-									-			-						_	-		\vdash	\vdash	\rightarrow
RC Works (KSR 1-12 Sub Zone 2)	97													7 9			97	97	97									97 97		1	_	igwdapprox	\vdash	\rightarrow
RC Works (KSR 1-12 Sub Zone 3)	97											_		7 9			97	97	97									97 97				ш	\sqcup	
RC Works (KSR 12-33)	108	108	108	108	108	108	108	108	108	108 1	108 1	08	108 10	08 10	08 108	8 108	108	108	108	108	108	108	108	108	08	108	108	108 108	3 108	108	108			
RC Works (KSR 33-39)	104					I	104	104	104	104 1	104 1	04	104 10	04 10)4 104	4 104	104	104	104	104	104	104	104											
Structural Steel Works (KSR 16-33)	97																			97	97	97	97	97	97									
UU and Road Works (KSR Ext A)	105																						105	105	05	105	105	105 105	5 105	105	105	105	105	105
Bicycle Parking Bays (KSR Ext B)	103																						103	103	03	103	103	103 103	3 103	103	103	103	103	103
C&C Tunnel: PHD to KSR incl. Southern Extension Tunnel (PHDKSR-1)	101	101	101	101	101	101	101	101	101	101 1	101 1	01 ′	101 10)1 10)1 10	1 101	101	101	101	101	101					101	-							
C&C Tunnel: PHD to KSR incl. Southern Extension Tunnel (PHDKSR-2)	99	99	99	99						99		99									99						99				+'	\vdash	\vdash	\rightarrow
C&C Tunnel: PHD to KSR incl. Southern Extension Tunnel (PHDKSR-3)	101	101			-								101 10													101					+	-	$\vdash \vdash$	
, , ,					-		-		-			-		_	_		+			+				_							+'	-	\vdash	\dashv
C&C Tunnel: PHD to KSR incl. Southern Extension Tunnel (PHDKSR-4) (Eastern)	95	95	95	95	95	95			-					5 9				95	95	95							95				<u> </u>	<u> </u>	\sqcup	
C&C Tunnel: PHD to KSR incl. Southern Extension Tunnel (PHDKSR-4) (Western)	99	99	99	99	99	99	99	99	99	99	99	99	99 9	9 9	9 99	99	99	99	99	99	99	99	99	99	99	99	99	99			<u> </u>	<u> </u>		
C&C Tunnel: Backfilling (PHDKSR-1 to PHDKSR-4)	101																	101	101	101	101	101	101	101	01	101	101							
KSR - Backfilling (KSR 12-14)	101																				101	101	101	101	01	101	101	101 101	1 101	101		,		
Predicted Construction Noise, dB(A)	<u> </u>	1		1	I I	I								- 1	1			1		- 1					-		- 1			1				
NAP	Max																											-+			+	\vdash		
PHD-E1	55	55	55	55	55	55	55	55	55	55	55	55	55 5	5 5	5 55	55	55	55	55	55	55	55	55	55	55	55	55	55 0	0	0	0	0	0	0
PHDKSR-E1	57	57		_		57				57	_			7 5				57	57	57			57		_			57 0		0	0	0		0
PHDKSR-P1	66	66	66	66	66	66	66				_		66 6			_	66	66	66	66								66 0	0	0	0	0	0	0
PHDKSR-P2	67	67	67	67		67					67		67 6				67	67	67	67								67 50		50		0	0	0
PHDKSR-P3 KSR-P1	67	67	67	67 62	67	67		67	_	67	67		67 6	7 6	_		67	67	67	67		67					67	67 54	54	54	54	0	0	0
KSR-P2	65 75	64 73	62 72	72	62 72	62 72	62	62 72			_		63 6 75 7	3 63 5 75			62 74	62 74	62 74	62 75	62 75	75					62 75	62 61 75 75	75	75	74	0	0	0
KSR-P3	66	65	64	64	64	64	64		_				65 6	_	_		64	64	64	64	64	64				_		64 63	_	63	62	0	0	0
KSR-P4	68	66	63	63	63	63	63		_				64 6				62	62	62	62	63	63			_		63	63 62		62	_	0	0	0
KSR-P5	73	71	69	69	69	69	69	69			69		69 6	_			66	66	66	66		66					66	66 66		66	65	0	0	0
KSR-P6	68	68	67	67	67	67	67		_				67 6	_			64	64	64	65							63	63 63	_	63	63	54		54
KSR-P7	67			66	66					65				5 6				64	64	64						61	61	61 61		61		56		56
KSR-P8	70																								70			70 62		62		0		0
KSR-E1 Notes:	63	63	63	63	63	63	63	63	63	63	63	63	63 6	3 6	3 63	61	61	61	61	61	61	61	62	59	59	59	59	59 59	59	59	59	54	54	54

Notes:

1. As a worst case scenario, the predicted construction noise is calculated using the distance between the notional centre of the workfront to the NAP.

⁻ Distance Attenuation, in dB(A) = - 20 log D - 8 (where D is the distance in metres).

⁻ A +3 dB(A) façade correction was added to the predicted noise level to account for the façade effect at the NAP.
2. "RC Works (KSR 12-33)" and "RC Works (KSR 33-39)" will not take place concurrently. The worst case is

adopted for calculation.

3. "C&C Tunnel: PHD to KSR incl. Southern Extension Tunnel" and "C&C Tunnel: PHD to KSR incl. Southern

Extension Tunnel - Backfilling" will not take place concurrently. The worst case is adopted for calculation.

4. Text in bold and underline denotes exceedance of relevant criterion (text in orange cell denotes exceedance

for school during examination period).

^{5.} Cell with shaded area denotes the unoccupancy of the NSR (i.e. before the population intake).

Project : Consultancy Agreement No. C1603 EIA Study for Northern Link

Title: Construction Noise Calculation (Kam Sheung Road Station (KSR) & C&C Tunnel from PHD to KSR) Scenario: Mitigated Scenario

							20	31					
		1	2	3	4	5	6	7	8	9	10	11	12
Site Clearance, Preparation & Monitoring (KSR)	104												
Site Formation (RE Wall Modification (KSR 14-16))	111												
Site Formation (TWR Underpass (KSR 12-14))	110												
D-wall, Piling and Excavation (KSR 1-12)	101												
D-wall, Piling and Excavation (KSR 12-33)	110												
D-wall, Piling and Excavation (KSR 33-39)	105												
RC Works (KSR 1-12)	103												
RC Works (KSR 1-12 Sub Zone 1)	97												
RC Works (KSR 1-12 Sub Zone 2)	97												
RC Works (KSR 1-12 Sub Zone 3)	97												
RC Works (KSR 12-33)	108												
RC Works (KSR 33-39)	104												
Structural Steel Works (KSR 16-33)	97												
UU and Road Works (KSR Ext A)	105	105	105										
Bicycle Parking Bays (KSR Ext B)	103	103	103										
C&C Tunnel: PHD to KSR incl. Southern Extension Tunnel (PHDKSR-1)	101												
C&C Tunnel: PHD to KSR incl. Southern Extension Tunnel (PHDKSR-2)	99												
C&C Tunnel: PHD to KSR incl. Southern Extension Tunnel (PHDKSR-3)	101												
C&C Tunnel: PHD to KSR incl. Southern Extension Tunnel (PHDKSR-4) (Eastern)	95												
C&C Tunnel: PHD to KSR incl. Southern Extension Tunnel (PHDKSR-4) (Western)	99												
C&C Tunnel: Backfilling (PHDKSR-1 to PHDKSR-4)	101												
KSR - Backfilling (KSR 12-14)	101												

Predicted Construction Noise, dB(A)													
NAP	Max												
PHD-E1	55	0	0	0	0	0	0	0	0	0	0	0	0
PHDKSR-E1	57	0	0	0	0	0	0	0	0	0	0	0	0
PHDKSR-P1	66	0	0	0	0	0	0	0	0	0	0	0	0
PHDKSR-P2	67	0	0	0	0	0	0	0	0	0	0	0	0
PHDKSR-P3	67	0	0	0	0	0	0	0	0	0	0	0	0
KSR-P1	65	0	0	0	0	0	0	0	0	0	0	0	0
KSR-P2	75	0	0	0	0	0	0	0	0	0	0	0	0
KSR-P3	66	0	0	0	0	0	0	0	0	0	0	0	0
KSR-P4	68	0	0	0	0	0	0	0	0	0	0	0	0
KSR-P5	73	0	0	0	0	0	0	0	0	0	0	0	0
KSR-P6	68	54	54	0	0	0	0	0	0	0	0	0	0
KSR-P7	67	56	56	0	0	0	0	0	0	0	0	0	0
KSR-P8	70	0	0	0	0	0	0	0	0	0	0	0	0
KSR-E1	63	54	54	0	0	0	0	0	0	0	0	0	0

- 1. As a worst case scenario, the predicted construction noise is calculated using the distance between the notional centre of the workfront to the NAP.

 - Distance Attenuation, in dB(A) = - 20 log D - 8 (where D is the distance in metres).
- A +3 dB(A) façade correction was added to the predicted noise level to account for the façade effect at the NAP.
 2. "RC Works (KSR 12-33)" and "RC Works (KSR 33-39)" will not take place concurrently. The worst case is
- adopted for calculation.

 3. "C&C Tunnel: PHD to KSR incl. Southern Extension Tunnel" and "C&C Tunnel: PHD to KSR incl. Southern
- Extension Tunnel Backfilling" will not take place concurrently. The worst case is adopted for calculation.

 4. Text in bold and underline denotes exceedance of relevant criterion (text in orange cell denotes exceedance
- for school during examination period).
- 5. Cell with shaded area denotes the unoccupancy of the NSR (i.e. before the population intake).

Shui Mei Road Ancillary Building (EAP/EEP/VB)

Title: Construction Noise Calculation (Shui Mei Road Ancillary Building (EAP/EEP/VB))

Scenario: Mitigated Scenario

							20)25											20	26											20	27					
		1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12
Preliminary Works (AB5)	104				104	104	104																														
Retaining Walls and Site Formation Works (AB5-RW)	103						103	103	103	103	103	103	103																								
Cofferdam Works (AB5-a1)	103								103	103	103	103	103	103	103	103	103																				
Cofferdam Works (AB5-a2)	103								103	103	103	103	103	103	103	103	103																				
Cofferdam Works (AB5-a3)	103								103	103	103	103	103	103	103	103	103																				
Cofferdam Works (AB5-a)	91								91	91	91	91	91	91	91	91	91																				
Foundation Works (AB5-b)	105								105	105	105	105	105	105	105	105	105																				
Excavation Works (AB5-a)	99																				99	99	99	99	99	99	99	99	99	99							
RC Works (AB5-b)	106																																				
TBM Tunnel (AB5-TBM)	105																																105	105	105	105	105
Site Clearance and Establishment (CLP Substation)	100								100																												
Construct Temporary Substation (CLP Substation)	102								102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102					
Decommissioning, Demolition and Site Reinstatement Temporary Substation (CLP Substation)	99																																				
Contractor Site Office Construction (Contractor Site Office)	101								101	101	101																										
Removal and Reinstatement (Contractor Site Office)	100																																				
During the second secon	1								1		1																										_
Predicted Construction Noise, dB(A) NAP	Max	+	1	1		+				<u> </u>																				<u> </u>					\dashv	\rightarrow	
SMR-E1	75	0	0	0	68	68	71	71	75	75	75	75	75	74	74	74	74	0	0	0	63	63	63	63	63	63	63	63	63	63	0	0	71	71	71	71	71
SMR-E2	55	0	0	0	0			49	55		55	54		53	53			53	53	53											53		51	51			

- 1. As a worst case scenario, the predicted construction noise is calculated using the distance between the notional centre of the workfront to the NAP.

 - Distance Attenuation, in dB(A) = - 20 log D - 8 (where D is the distance in metres).
- A +3 dB(A) façade correction was added to the predicted noise level to account for the façade effect at the NAP.
- 2. "Preliminary Works" and "Retaining Walls and Site Formation Works" will not take place concurrently. The worst case is adopted for calculation.
- 3. "TBM Tunnel (AB5-TBM)" and "Temporary CLP Decommissioning, Demolition and Site
- Reinstatement" will not take place concurrently. The worst case is adopted for calculation.

 4. "Temporary CLP Sub-Station Site Clearance and Establishment", "Temporary CLP Sub-Station Construction", and "Contractor's Site Office Construction" will not take place concurrently. The worst case
- is adopted for calculation.

 5. Text in bold and underline denotes exceedance of relevant criterion.

Title: Construction Noise Calculation (Shui Mei Road Ancillary Building (EAP/EEP/VB))

Scenario: Mitigated Scenario

							2	028										20	029										203	30				
		1	2	3	3 4	5	6	7	8	9	10	11	12	1	2	3	4 5	6	7	8	9	10 11	12	2 1	2	3	4	5	6	7 8	8 9	10	11	12
Preliminary Works (AB5)	104																																	
Retaining Walls and Site Formation Works (AB5-RW)	103																																	
Cofferdam Works (AB5-a1)	103																																	
Cofferdam Works (AB5-a2)	103																																	
Cofferdam Works (AB5-a3)	103																																	
Cofferdam Works (AB5-a)	91																																	
Foundation Works (AB5-b)	105																																	
Excavation Works (AB5-a)	99																																	
RC Works (AB5-b)	106															106	106 106	106	106 1	06	106 1	06												
TBM Tunnel (AB5-TBM)	105	105	105	10	10	5 105	105	105	105	105	5 105	105	105	105	105	105	105 105	105	105 1	05	105 1	05 108	5 10	5 10	5 105	105	105	105	105	105 10)5 10	5 105	105	
Site Clearance and Establishment (CLP Substation)	100																																	
Construct Temporary Substation (CLP Substation)	102																																	
Decommissioning, Demolition and Site Reinstatement Temporary Substation (CLP Substation)	99																																99	99
Contractor Site Office Construction (Contractor Site Office)	101																																	
Removal and Reinstatement (Contractor Site Office)	100																																	
Durdisted Construction Noise alD(A)		1																1																
Predicted Construction Noise, dB(A) NAP	Max			-			+	+	+	+								1	-							1					+	$+\!-$	+	
SMR-E1	75	71	71	7	1 71	71	71	71	71	71	71	71	71	71	71	74	74 74	74	74	74	74	74 71	71	1 71	1 71	71	71	71	71	71 7	1 7	1 71	71	0
SMR-E2	55	51	51	5	1 51	51	51	51	51	51	51	51	51	51	51	51	51 51	51	51	51	51	51 51	51	51	1 51	51	51	51	51	51 5				49

- A +3 dB(A) façade correction was added to the predicted noise level to account for the façade effect at the NAP.
- 2. "Preliminary Works" and "Retaining Walls and Site Formation Works" will not take place concurrently. The worst case is adopted for calculation.
- 3. "TBM Tunnel (AB5-TBM)" and "Temporary CLP Decommissioning, Demolition and Site
- Reinstatement" will not take place concurrently. The worst case is adopted for calculation.

 4. "Temporary CLP Sub-Station Site Clearance and Establishment", "Temporary CLP Sub-Station Construction", and "Contractor's Site Office Construction" will not take place concurrently. The worst case
- is adopted for calculation.

 5. Text in bold and underline denotes exceedance of relevant criterion.

^{1.} As a worst case scenario, the predicted construction noise is calculated using the distance between the notional centre of the workfront to the NAP.

- Distance Attenuation, in dB(A) = - 20 log D - 8 (where D is the distance in metres).

Title: Construction Noise Calculation (Shui Mei Road Ancillary Building (EAP/EEP/VB))

Scenario: Mitigated Scenario

							20)31					
		1	2	3	4	5	6	7	8	9	10	11	12
Preliminary Works (AB5)	104												
Retaining Walls and Site Formation Works (AB5-RW)	103												
Cofferdam Works (AB5-a1)	103												
Cofferdam Works (AB5-a2)	103												
Cofferdam Works (AB5-a3)	103												
Cofferdam Works (AB5-a)	91												
Foundation Works (AB5-b)	105												
Excavation Works (AB5-a)	99												
RC Works (AB5-b)	106												
TBM Tunnel (AB5-TBM)	105												
Site Clearance and Establishment (CLP Substation)	100												
Construct Temporary Substation (CLP Substation)	102												
Decommissioning, Demolition and Site Reinstatement Temporary Substation (CLP Substation)	99												
Contractor Site Office Construction (Contractor Site Office)	101												
Removal and Reinstatement (Contractor Site Office)	100			100	100	100							

Predicted Construction Noise, dB(A)													
NAP	Max												
SMR-E1	75	0	0	0	0	0	0	0	0	0	0	0	0
SMR-E2	55	0	0	48	48	48	0	0	0	0	0	0	0

- 1. As a worst case scenario, the predicted construction noise is calculated using the distance between the notional centre of the workfront to the NAP.

 - Distance Attenuation, in dB(A) = - 20 log D - 8 (where D is the distance in metres).
- A +3 dB(A) façade correction was added to the predicted noise level to account for the façade effect at the NAP.
- 2. "Preliminary Works" and "Retaining Walls and Site Formation Works" will not take place concurrently. The worst case is adopted for calculation.
- 3. "TBM Tunnel (AB5-TBM)" and "Temporary CLP Decommissioning, Demolition and Site
- Reinstatement" will not take place concurrently. The worst case is adopted for calculation.

 4. "Temporary CLP Sub-Station Site Clearance and Establishment", "Temporary CLP Sub-Station Construction", and "Contractor's Site Office Construction" will not take place concurrently. The worst case
- is adopted for calculation.
 5. Text in bold and underline denotes exceedance of relevant criterion.

Au Tau Station (AUT)

Title: Construction Noise Calculation (Au Tau Station (AUT))

Scenario: Mitigated Scenario

							2026	6											202	7											2028				
		1	2	3	4	5	6	7	8	9	10 1	1 1	2	1	2	3	4	5	6	7	8	9	10 ′	11	12	1 2	2 3		4 5	6	7	8	9	10	11 1:
Site Clearance, Preparation & Monitoring (AUT-A, AUT-B & AUT-C)	104									•	104 10	04 10	04 1	04	104	104																			i
Site Formation Works, Backfilling (AUT-A, AUT-B & AUT-C)	106										10	06 10	06 1	06	106																				i
D-wall & Piling Trial (AUT-A, AUT-B & AUT-C)	99										99 9	9 9	9 9	99	99																				i
D-wall, Piling & Excavation (AUT-A)	108														108	108 1	108 1	08	108	108	108	108	108 1	08 1	108 10	08 10	08 10	8 10	08 108	3 108	3 108	3 108	108	108	108 10
D-wall, Piling & Excavation (AUT-B)	108														108	108 1	108 1	08	108	108	108	108	108 1	08 1	108 10	08 10	08 10	8 10	08 108	3 108	3 108	108	108	108	108 10
D-wall, Piling & Excavation (AUT-C)	111														111	111 1	111 1	11	111	111	111	111 1	111 1	11 1	111 1	11 1	11 11	1 11	11 111	111	1 111	111	111	111	111 11
RC Works (AUT-A)	104																																		i
RC Works (AUT-B)	106																																		i
RC Works (AUT-C)	104																																		i
Structural Steel Works (AUT-B)	97																																		i
Park & Ride Facilities/ Bicycle Parking Bays (AUT-D)	103																																		
Predicted Construction Noise, dB(A)	<u> </u>	1	1	1	1 1						- 1				1	-			1		<u> </u>				1	1								т—	
NAP	Max										-																	+	-	+-	+-	+-	+-	+	
AUT-E1	69	0	0	0	0	0	0	0	0	0	61 6	4 6	4 6	64	69	69 (68	68	68	68	68	68	68 6	68 (68 6	8 6	8 68	3 6	8 68	68	68	68	68	68	68 6
AUT-E2	75	0	0	0	0	0	0	0	0		67 7					75					75				75 7		5 75	7 ز	5 75	75	75	75			75 7
AUT-P1	53																																		
AUT-P2	57																																		
AUT-P3	51																																		

- 1. As a worst case scenario, the predicted construction noise is calculated using the distance between the notional centre of the workfront to the NAP.
- Distance Attenuation, in dB(A) = 20 log D 8 (where D is the distance in metres).
- A +3 dB(A) façade correction was added to the predicted noise level to account for the façade effect at the
- 2. "D-wall, Piling & Excavation" and "Site Formation Works (Backfilling)" will not take place concurrently. The worst case is adopted for calculation.
- 3. "D-wall, Piling & Excavation" and "D-wall, Piling Trial" will not take place concurrently. The worst case is adopted for calculation.
- 4. "D-wall, Piling & Excavation" and "RC Works" will not take place concurrently. The worst case is adopted for calculation.
- 5. "Strutural Steel Works" and "Park & Ride Facilities/ Bicycle Parking Bays" will not take place concurrently. The worst case is adopted for calculation.
- 6. Text in bold and underline denotes exceedance of relevant criterion.
- 7. Cell with shaded area denotes the unoccupancy of the NAP (i.e. before the population intake).

Title: Construction Noise Calculation (Au Tau Station (AUT))

Scenario: Mitigated Scenario

						2	029											203	0											203	31				
		1	2	3	4 5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11
Site Clearance, Preparation & Monitoring (AUT-A, AUT-B & AUT-C)	104																															,	, ,	,	i i
Site Formation Works, Backfilling (AUT-A, AUT-B & AUT-C)	106																																		
D-wall & Piling Trial (AUT-A, AUT-B & AUT-C)	99																																		
D-wall, Piling & Excavation (AUT-A)	108	108	8 108	3 108	3																														
D-wall, Piling & Excavation (AUT-B)	108	108	8 108	3 108	3																														
D-wall, Piling & Excavation (AUT-C)	111	111	1 111	1 111																															
RC Works (AUT-A)	104			104	104 104	4 104	104	104	104	104	104 1	104	104	104	104 1	104 1	04	104	104	104															
RC Works (AUT-B)	106			106	106 100	6 106	106	106	106	106	106 1	106	106	106	106 1	106 1	06	106	106	106															
RC Works (AUT-C)	104			104	104 104	4 104	104	104	104	104	104 1	104	104	104	104 1	104 1	04	104	104	104															
Structural Steel Works (AUT-B)	97														97	97	97	97	97	97															
Park & Ride Facilities/ Bicycle Parking Bays (AUT-D)	103																			103	103	103	103	103 1	103	103	103	103	103	103	103	103	103	103	103
Predicted Construction Naise dP/A)		-			1		1		1							-							1												
Predicted Construction Noise, dB(A) NAP	Max																												\rightarrow	-+	\rightarrow	\longrightarrow		\longrightarrow	
AUT-E1	69	68	68	68	64 64	64	64	64	64	64	64	64	64	64	64 (64	64	64	64	64	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53
AUT-E2	75	75						69	69		69	69	69	69	69 (69	69	69	69	69	52	52	52	52				52			52	52	52	52	52
AUT-P1	53																								53			53							
AUT-P2	57																								57			57						57	
AUT-P3	51																								51	51	51	51	51	51	51	51	51	51	51

AUT-P3 Notes:

- 1. As a worst case scenario, the predicted construction noise is calculated using the distance between the notional centre of the workfront to the NAP.
- Distance Attenuation, in dB(A) = 20 log D 8 (where D is the distance in metres).
- A +3 dB(A) façade correction was added to the predicted noise level to account for the façade effect at the
- 2. "D-wall, Piling & Excavation" and "Site Formation Works (Backfilling)" will not take place concurrently. The worst case is adopted for calculation.
- 3. "D-wall, Piling & Excavation" and "D-wall, Piling Trial" will not take place concurrently. The worst case is adopted for calculation.
- 4. "D-wall, Piling & Excavation" and "RC Works" will not take place concurrently. The worst case is adopted for calculation.
- 5. "Strutural Steel Works" and "Park & Ride Facilities/ Bicycle Parking Bays" will not take place concurrently. The worst case is adopted for calculation.
- 6. Text in bold and underline denotes exceedance of relevant criterion.
- 7. Cell with shaded area denotes the unoccupancy of the NAP (i.e. before the population intake).

Pok Wai Ancillary Building (EAP/EEP/VB)

Title: Construction Noise Calculation (Pok Wai Ancillary Building (EAP/EEP/VB)) (for POW-E1)

Scenario: Mitigated Scenario

							20	26										20	27											2028					_
		1	2	3	4	5	6	7	8	9	10		12 1		2 3	4	5	6	7	8	9	10	11	12	1	2 ;	3 4	1 5	6	7	8	9	10	11	12
Preliminary Works (Whole Area)	98										98	98	98																				1		
Road Works (AB6-b)	101											101 1	101 10)1																			1		
Cofferdam Works (AB6-a (AB Area Only)) (Northeast)	96													9	6 96	96	96	96	96	96													1		
Cofferdam Works (AB6-a (AB Area Only)) (Northwest)	96													9	6 96	96	96	96	96	96													1		
Cofferdam Works (AB6-a (AB Area Only)) (Southeast)	96													9	6 96	96	96	96	96	96													1		
Cofferdam Works (AB6-a (AB Area Only)) (Southwest)	96													9	6 96	96	96	96	96	96													1		
Cofferdam Works (AB6-a (AB Area Only))	102													10	02 10	2 102	102	102	102	102													1		
Retaining Walls (AB6-a-RW)	103											103 1	103 10	3 10	03																		1		
Bored Pile Wall (AB6-a-BPW)	96											96	96 96	6 9	6																		1		
Foundation Works (AB6-a (AB Area Only))(North)	95																			95	95	95											1		
Foundation Works (AB6-a (AB Area Only))(Southwest)	95																			95	95	95											1		
Foundation Works (AB6-a (AB Area Only))(Southeast)	95																			95	95	95											1		
Excavation Works (AB6-a)	99																								99	99 9	9	9					1		
Adit and Underground Tunnel Works Works (AB6-a (AB Area Only))	103																										10	103	3 10	3 103	103	103	103	103	103
RC Works (AB6-a (AB Area Only))	106																																i		
Predicted Construction Noise, dB(A)					I				ı	Ī					1		1							ı				1						$\overline{}$	_
NAP	Max																															\vdash	一十	-+	
POW-E1	72	0	0	0	0	0	0	0	0	0	62	72	72 72	2 6	7 65	65	65	65	65	65	59	59	0	0	62	62 6	2 6	3 63	63	3 63	63	63	63	63	63

- A +3 dB(A) façade correction was added to the predicted noise level to account for the façade effect at the
- 2. "Cofferdam Works" and "Foundation Works" will not take place concurrently. The worst case is adopted for calculation.
- 3. "Cofferdam Works", "Retaining Walls" and "Bored Pile Walls" will not take place concurrently. The worst case is adopted for calculation.
- 4. "Excavation Works" and "Adit and Underground Tunnel Works" will not take place concurrently. The worst case is adopted for calculation.

 5. Text in bold and underline denotes exceedance of relevant criterion.

Notes:

1. As a worst case scenario, the predicted construction noise is calculated using the distance between the notional centre of the workfront to the NAP.

- Distance Attenuation, in dB(A) = - 20 log D - 8 (where D is the distance in metres).

Title: Construction Noise Calculation (Pok Wai Ancillary Building (EAP/EEP/VB)) (for POW-E1)

Scenario: Mitigated Scenario

							20	029													20	30					
	<u> </u>	1	2	3	4	5	6	7	8	9	10	0	11	12	1	2	3	4	1	5	6	7	8	9	10	11	12
Preliminary Works (Whole Area)	98																										
Road Works (AB6-b)	101																										
Cofferdam Works (AB6-a (AB Area Only)) (Northeast)	96																										
Cofferdam Works (AB6-a (AB Area Only)) (Northwest)	96																										
Cofferdam Works (AB6-a (AB Area Only)) (Southeast)	96																										
Cofferdam Works (AB6-a (AB Area Only)) (Southwest)	96																										
Cofferdam Works (AB6-a (AB Area Only))	102																										
Retaining Walls (AB6-a-RW)	103																										
Bored Pile Wall (AB6-a-BPW)	96																										
Foundation Works (AB6-a (AB Area Only))(North)	95																										
Foundation Works (AB6-a (AB Area Only))(Southwest)	95																										
Foundation Works (AB6-a (AB Area Only))(Southeast)	95																										
Excavation Works (AB6-a)	99																										
Adit and Underground Tunnel Works Works (AB6-a (AB Area Only))	103	103	103	103	103																						
RC Works (AB6-a (AB Area Only))	106						106	106	106	10	6 10)6 1	106	106	106											L	
Predicted Construction Noise, dB(A)																											工
NAP POW-E1	Max 72	63	63	63	63	0	65	65	65	65	5 65		65	65	65	0	0					0		0	0	0	

POW-E1 Notes:

Notes:

1. As a worst case scenario, the predicted construction noise is calculated using the distance between the notional centre of the workfront to the NAP.

- Distance Attenuation, in dB(A) = - 20 log D - 8 (where D is the distance in metres).

- A +3 dB(A) façade correction was added to the predicted noise level to account for the façade effect at the NAP.
- 2. "Cofferdam Works" and "Foundation Works" will not take place concurrently. The worst case is adopted for calculation.
- 3. "Cofferdam Works", "Retaining Walls" and "Bored Pile Walls" will not take place concurrently. The worst case is adopted for calculation.
- 4. "Excavation Works" and "Adit and Underground Tunnel Works" will not take place concurrently. The worst case is adopted for calculation.

 5. Text in bold and underline denotes exceedance of relevant criterion.

Title: Construction Noise Calculation (Pok Wai Ancillary Building (EAP/EEP/VB)) (for POW-E2, E-3, and E-4)

Scenario: Mitigated Scenario

						2(026										20	27											028				
		1	2	3 4	1 5	6	7	8	9	10	11	12	1	2 3	4	5	6	7	8	9	10	11 1	2	1	2 3	4	5		7	8	9	10	11 12
Preliminary Works (Whole Area)	98									98	98	98																					
Road Works (AB6-b)	101										101	101 10	01																				
Cofferdam Works (AB6-a (AB Area Only)) (Northeast)	96													96	96	96	96	96	96														
Cofferdam Works (AB6-a (AB Area Only)) (Northwest)	96													96 96	96	96	96	96	96														
Cofferdam Works (AB6-a (AB Area Only)) (Southeast)	96													96 96	96	96	96	96	96														
Cofferdam Works (AB6-a (AB Area Only)) (Southwest)	96													96 96	96	96	96	96	96														
Cofferdam Works (AB6-a (AB Area Only))	102												1	02 102	2 102	102	102	102	102														
Retaining Walls (AB6-a-RW)	108										108	108 10	08 1	08																			
Bored Pile Wall (AB6-a-BPW)	106										106	106 10	06 1	06																			
Foundation Works (AB6-a (AB Area Only))(North)	95																		95	95	95												
Foundation Works (AB6-a (AB Area Only))(Southwest)	95																		95	95	95												
Foundation Works (AB6-a (AB Area Only))(Southeast)	95																		95	95	95												
Excavation Works (AB6-a)	99																						Ş	99	99 99	9 99	9						
Adit and Underground Tunnel Works Works (AB6-a (AB Area Only))	103																									10	3 10	3 103	103	103	103	103	103 103
RC Works (AB6-a (AB Area Only))	106																																
	1	1																															
Predicted Construction Noise, dB(A) NAP	Max		 				ļ																-			+	_						-
POW-E2	Max 71	0	0 () () 0	0	0	0	0	60	71	71 7	0	63 65	65	65	65	65	65	59	50	0 (1 6	30	60 60	0 61	3 63	8 63	63	63	63	63	63 63
POW-E3	75	0	0			0	0	0		70			4		_	_			73		67	0 (70 70) 7:	2 72	72				72	72 72
POW-E4	70	0	0) 0	0	0	0	-	62			5		_	_	69		69		64	0 (35			7 67		67				67 67

POW-E4 Notes:

- Distance Attenuation, in $dB(A) = -20 \log D 8$ (where D is the distance in metres).
- A +3 dB(A) façade correction was added to the predicted noise level to account for the façade effect at the NAP.
- 2. "Cofferdam Works" and "Foundation Works" will not take place concurrently. The worst case is adopted for calculation.
- 3. "Cofferdam Works", "Retaining Walls" and "Bored Pile Walls" will not take place concurrently. The worst case is adopted for calculation.
- 4. "Excavation Works and "Adit and Underground Tunnel Works" will not take place concurrently. The worst case is adopted for calculation.
- 5. A -8 dB(A) attenuation has been accounted for in predicting the noise levels at NAPs POW-E2 to POW-E4 due to the proposed 2.3m noise barrier for the activities "Retaining Walls" and "Bored Pile Wall". The attenuation from typical noise barriers/ acoustic mats, silencers, and noise enclosures are not double counted.
- 6. Text in bold and underline denotes exceedance of relevant criterion.

^{1.} As a worst case scenario, the predicted construction noise is calculated using the distance between the notional centre of the workfront to the NAP.

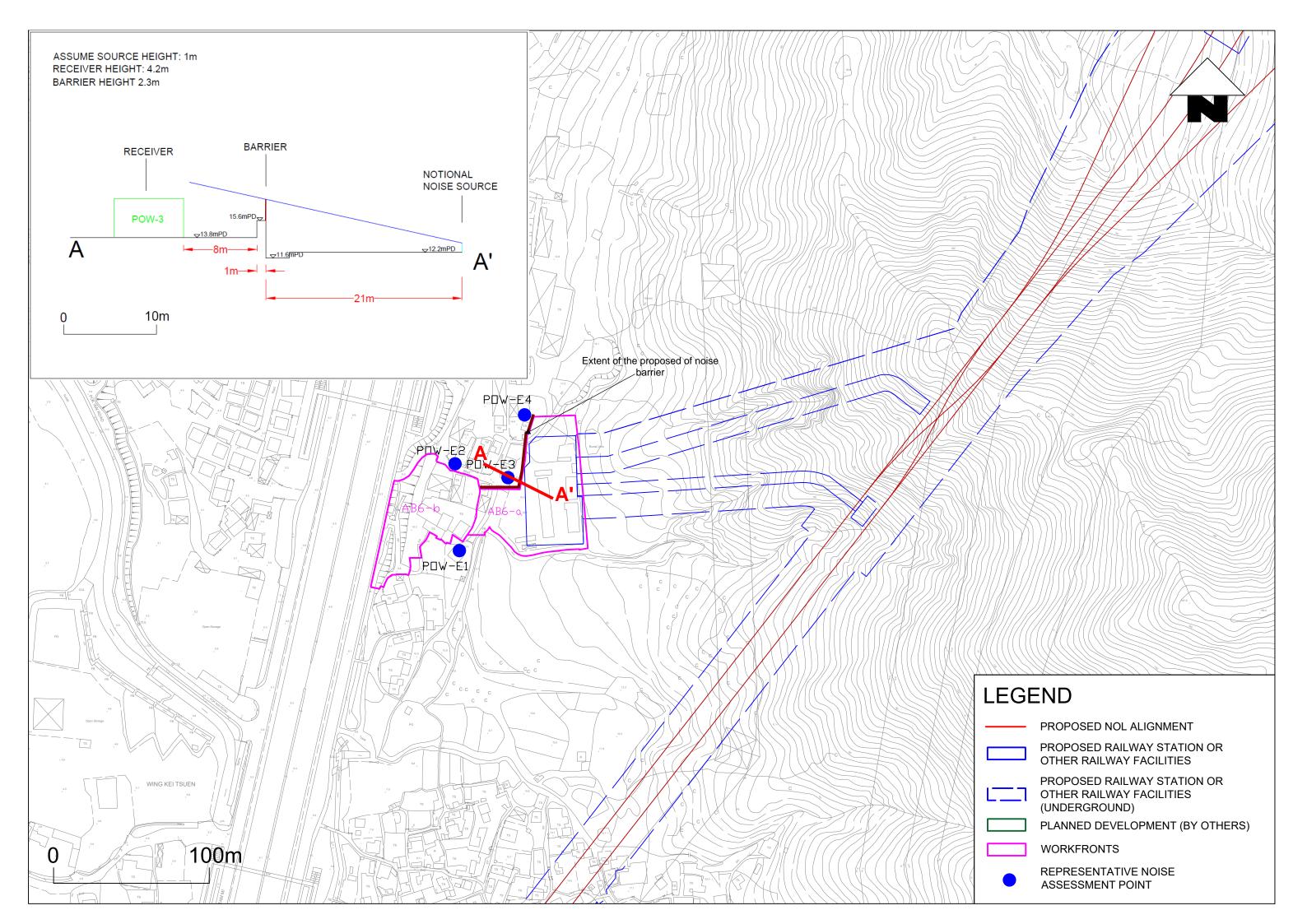
Title: Construction Noise Calculation (Pok Wai Ancillary Building (EAP/EEP/VB)) (for POW-E2, E-3, and E-4)

Scenario: Mitigated Scenario

<u> </u>	_						20)29												20	30					
		1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	1	5	6	7	8	9	10	11	12
Preliminary Works (Whole Area)	98																									
Road Works (AB6-b)	101																									
Cofferdam Works (AB6-a (AB Area Only)) (Northeast)	96																									
Cofferdam Works (AB6-a (AB Area Only)) (Northwest)	96																									
Cofferdam Works (AB6-a (AB Area Only)) (Southeast)	96																									
Cofferdam Works (AB6-a (AB Area Only)) (Southwest)	96																									
Cofferdam Works (AB6-a (AB Area Only))	102																									
Retaining Walls (AB6-a-RW)	108																									
Bored Pile Wall (AB6-a-BPW)	106																									
Foundation Works (AB6-a (AB Area Only))(North)	95																									
Foundation Works (AB6-a (AB Area Only))(Southwest)	95																									
Foundation Works (AB6-a (AB Area Only))(Southeast)	95																									
Excavation Works (AB6-a)	99																									
Adit and Underground Tunnel Works Works (AB6-a (AB Area Only))	103	103	103	103	103																					
RC Works (AB6-a (AB Area Only))	106						106	106	106	106	106	106	106	106												

Predicted Construction Noise, dB(A)																									
NAP	Max																								
POW-E2	71	63	63	63	63	0	66	66	66	66	66	66	66	66	0	0	0	0	0	0	0	0	0	0	0
POW-E3	75	72	72	72	72	0	75	75	75	75	75	75	75	75	0	0	0	0	0	0	0	0	0	0	0
POW-E4	70	67	67	67	67	0	70	70	70	70	70	70	70	70	0	0	0	0	0	0	0	0	0	0	0

- 1. As a worst case scenario, the predicted construction noise is calculated using the distance between the notional centre of the workfront to the NAP.
- Distance Attenuation, in $dB(A) = -20 \log D 8$ (where D is the distance in metres).
- A +3 dB(A) façade correction was added to the predicted noise level to account for the façade effect at the NAP.
- 2. "Cofferdam Works" and "Foundation Works" will not take place concurrently. The worst case is adopted for calculation.
- 3. "Cofferdam Works", "Retaining Walls" and "Bored Pile Walls" will not take place concurrently. The worst case is adopted for calculation.
- 4. "Excavation Works and "Adit and Underground Tunnel Works" will not take place concurrently. The worst case is adopted for calculation.
- 5. A -8 dB(A) attenuation has been accounted for in predicting the noise levels at NAPs POW-E2 to POW-E4 due to the proposed 2.3m noise barrier for the activities "Retaining Walls" and "Bored Pile Wall". The attenuation from typical noise barriers/ acoustic mats, silencers, and noise enclosures are not double counted.
- 6. Text in bold and underline denotes exceedance of relevant criterion.



Ngau Tam Mei Station (NTM), Ngau Tam Mei Depot (NTD), & Mined/ D&B/ C&C/ Tunnel: NTD > Underground Tunnel

Title: Construction Noise Calculation (Ngau Tam Mei Station (NTM), Ngau Tam Mei, Depot (NTD), Scenario: Mitigated Scenario

	1						2025										2026											2027	7				
		1	2	3	4	5	6 7	7 8	9	10	11 12	1	2	3	4		7	8	9			12		2	3	4	5	6		8	9	10	11 12
Site Clearance, Preparation & Monitoring (NTM)	104																			104	104												
Road Works (NTM R1-1)	98																					98		98	98								
Road Works (NTM R1-2)	98																					98	98	98	98	98							
NTM Site Formation Works - Cut and Fill Works (NTM)	107																									107	107 1	107 1	107				
D-wall and Piling Trial (NTM 1-8, 8-20 & 20-24)	102																			102	102	102	102	102							_	_	
D-wall, Piling and Excavation (NTM 1-8)	108																								108	108	108 1	108 1	108	108	108 1	108 1	108 10
D-wall, Piling and Excavation (NTM 8-20)	107																								107	107	107 1	107 1	107	107	107 1	107 1	107 10
D-wall, Piling and Excavation (NTM 20-24)	104																								104	104	104 1	104 1	104	104	104	104 1	104 10
RC Stuctures (NTM 1-8)	106																																
RC Stuctures (NTM 8-20)	104																																
RC Stuctures (NTM 20-24)	104																																
Structural Steel Works (NTM 8-20)	97																																
Site Clearance, Preparation & Monitoring (NTD-1)	104																			104	104	104	104	104	104								
Site Clearance, Preparation & Monitoring (NTD-2)	104																			104	104	104	104	104	104								
Site Clearance, Preparation & Monitoring (NTD-3)	104																			104	104	104	104	104	104								
UU and Haul Road (NTD R1)	102																					102	102	102	102	102							
UU and Roadworks (NTD R1)	103																																
Backfilling Works (NTD-1)	110																													110	110	110 1	110 11
Open Excavation Works (NTD-2)	101																						101	101	101	101	101 1	101 1	101	101	101	101 1	101 10
Open Excavation Works (NTD-3)	101																						101	101	101	101	101 1	101 1	101	101	101	101 1	101 10
Retaining Wall Construction, South (NTD RW(S))	110																					110	110	110	110	110	110 1	110 1	110	110	110	110 1	110 11
Retaining Wall Construction,East (NTD RW(E))	105																							105	105	105	105 1	105 1	105	105	105	105 1	105 10
Retaining Wall Construction, North (NTD RW(N))	104																										1	104 1	104	104	104	104 1	04
Bored Pile Wall Construction, West (NTD BPW(W))	112																						112	112	112	112	112 1	112 1	112	112	112	112 1	112 11
Foundation Works for Deck Enclosure (NTD-1)	106																							106	106	106	106 1	106 1	106	106	106	106 1	106 10
Foundation Works for Deck Enclosure (NTD-2)	106																							106	106	106	106 1	106 1	106	106	106	106 1	106 10
Foundation Works for Deck Enclosure (NTD-3)	106																							106	106	106	106 1	106 1	106	106	106	106 1	106 10
NTD RC Stuctures (NTD-1)	102																														П		
NTD RC Stuctures (NTD-2)	105																																
NTD RC Stuctures (NTD-3)	105																																
Mined Tunnel NTD to Underground Tunnel (NTD > Underground Tunnel)	102																										102 1	102 1	102	102	102	102 1	102 10
NTD C&C Tunnel (NTD > Underground Tunnel)	108				108	108	108 10	08 108	3 108	108	108 108	3 108	108	108	108	108 10	108	108	108	108	108	108	108	108	108	108					Т		
D&B Tunnel NTD to Underground Tunnel (NTD > Underground Tunnel)	102																																10
NTD C&C Tunnel Remaining Works (NTD > Underground Tunnel)	108																																
NTD C&C Tunnel Backfilling (NTD > Underrgound Tunnel)	101																								101	101	101 1	101 1	101	101	101	101 1	101 10
Predicted Construction Noise, dB(A)													1															_	_		二	二	
NAP NTM-E1	Max 74	0	0	0	0	0	0 0) 0	0	0	0 0			0		0 (72 72
NTM-E2 NTM-E3	73 64	0	0	0	0	0	0 0	0	0	0	0 0		0		0	0 (0	0	0	65	65	70	71	72	73	72	69 (69	69	69	69	69 (69 69 61 6
NTM-E4	74	0	0	0	0	0	0 0	0	0	0	0 0	0	0	0	0	0 (0	0	0	66	66	73	73	74	74	74	72	73	73	74	74	74	74 74
NTM-E5 NTM-E6	70 71	0	0								56 56 67 67						6 56	56	56	63	63	66	68	69	69	68	70	70	70	70	70	70	70 70
NTM-E7	64	0	0	0	0	0	0 0	0	0	0	0 0	0	0	0	0	0 (0	0	0	60	60	61	64	64	64	62	62	62	62	59	59	59 5	59 59
NTM-E8	71	0	0	0	0	0	0 0	0	0	0	0 0	0	0	0	0	0 (0	0	0	64	64	64	69	70	71	70	70	70	70	70	70	70	70 70

- 1. As a worst case scenario, the predicted construction noise is calculated using the distance between the notional centre of the workfront to the NAP.
- Distance Attenuation, in dB(A) = 20 log D 8 (where D is the distance in metres).

 A +3 dB(A) façade correction was added to the predicted noise level to account for the façade effect at the
- 2. "D-wall, Piling & Excavation (NTM 1-8)" and "RC Structures (NTM 1-8)" will not take place concurrently. The worst case is adopted for calculation.
- 3. "D-wall, Piling & Excavation (NTM 20-24)" and "RC Structures (NTM 20-24)" will not take place concurrently. The worst case is adopted for calculation.
- 4. "Mined Tunnel NTD to Underrgound Tunnel (NTD > Underrgound Tunnel)" and "NTD C&C Tunnel (NTD >
- Underrgound Tunnel)" will not take place concurrently. The worst case is adopted for calculation.

 5. "Mined Tunnel NTD to Underrgound Tunnel (NTD > Underrgound Tunnel)" and "D&B Tunnel NTD to Underrgound Tunnel (NTD > Underrgound Tunnel)" will not take place concurrently. The worst case is adopted
- 6. D&B Tunnel NTD to Underrgound Tunnel (NTD > Underrgound Tunnel)" and "NTD C&C Tunnel Remaining Works (NTD > Underrgound Tunnel)" will not take place concurrently. The worst case is adopted for calculation.
 7. Text in bold and underline denotes exceedance of relevant criterion.

Title: Construction Noise Calculation (Ngau Tam Mei Station (NTM), Ngau Tam Mei, Depot (NTD), Scenario : Mitigated Scenario

		Ļ	-	1 0		- 1	2028	, I c	1 0	1 40 1	44 1	40	4 1	0.1	0	4 1		2029		0 1	<u>, </u>	40	44 1	40		_	0	4			030	1 0		40		40
Site Clearance, Preparation & Monitoring (NTM)	104	1	2	3	4	5	6 7	7 8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12
	98																																	i		į.
Road Works (NTM R1-1) Road Works (NTM R1-2)	98																																	i		l.
NTM Site Formation Works - Cut and Fill Works (NTM)	107																																	i		1
D-wall and Piling Trial (NTM 1-8, 8-20 & 20-24)	107																																	i		l.
D-wall, Piling and Excavation (NTM 1-8)	102	109	109	108	108	108 1	ng 10	108	108	108	108	108																						i		
D-wall, Piling and Excavation (NTM 8-20)	107				107								107	107	107 1	107 1	07 1	107 1	107	107	107	107	107											i		
D-wall, Piling and Excavation (NTM 0-20)	107				107																			104										i		1
		102	+ 104	104	104	104 1	04 10	04 104	104	104						106 1									106	106	106	106	106	106	106	106		i		1
RC Stuctures (NTM 1-8)	106											106	106	106	106	106 1	06 1	106	106	100	106	100	106	106										104	104	1
RC Stuctures (NTM 8-20)	104																						н	101									104			101
RC Stuctures (NTM 20-24)	104																						- 1	104	104	104	104	104	104	104	104		104			
Structural Steel Works (NTM 8-20)	97																															97	97	97	97	97
Site Clearance, Preparation & Monitoring (NTD-1)	104																																'	1		1
Site Clearance, Preparation & Monitoring (NTD-2)	104																																	i		1
Site Clearance, Preparation & Monitoring (NTD-3)	104																																	i		1
UU and Haul Road (NTD R1)	102																																	i		1
UU and Roadworks (NTD R1)	103														103 1	103 1	03 1	03 1	103	103	103	103												i		1
Backfilling Works (NTD-1)	110				110																													i		11
Open Excavation Works (NTD-2)	101				101																													i		11
Open Excavation Works (NTD-3)	101	101	1 101	101	101	101 1	01 10	101	101	101																								1		1
Retaining Wall Construction, South (NTD RW(S))	110	110	110	110	110	110 1	10 11	10																										1		
Retaining Wall Construction,East (NTD RW(E))	105																																	1		1
Retaining Wall Construction, North (NTD RW(N))	104																																	1		1
Bored Pile Wall Construction, West (NTD BPW(W))	112	112	2																															1		1
Foundation Works for Deck Enclosure (NTD-1)	106	106	106	106	106	106 1	06																											1		1
Foundation Works for Deck Enclosure (NTD-2)	106	106	106	106	106	106 1	06																											1		1
Foundation Works for Deck Enclosure (NTD-3)	106	106	106	106	106	106 1	06																											i		11
NTD RC Stuctures (NTD-1)	102						10	102	102	102	102	102	102	102	102 1	102 1	02 1	02 1	102	102	102	102	102	102										i		1
NTD RC Stuctures (NTD-2)	105						10	105	105	105	105	105	105	105	105 1	105 1	05 1	05 1	105	105	105	105	105	105										1		1
NTD RC Stuctures (NTD-3)	105						10	105	105	105	105	105	105	105	105 1	105 1	05 1	05 1	105	105	105	105	105	105										1		
Mined Tunnel NTD to Underground Tunnel (NTD > Underground Tunnel)	102																																	i		1
NTD C&C Tunnel (NTD > Underground Tunnel)	108																																	1		
D&B Tunnel NTD to Underground Tunnel (NTD > Underground Tunnel)	102	102	2 102	102	102	102 1	02 10	102	102	102	102	102	102	102	102 1	102 1	02 1	02																1		
NTD C&C Tunnel Remaining Works (NTD > Underground Tunnel)	108																1	08 1	108	108	108	108												1		
NTD C&C Tunnel Backfilling (NTD > Underrgound Tunnel)	101	101	1 101	101	101	101 1	01 10	101	101	101	101	101	101	101	101 1	101 1	01 1	01 1	101	101	101	101												Ш		
Predicted Construction Noise, dB(A) NAP	Max										ļ	-		I	_			I			-	_											\blacksquare			
NTM-E1	74	72			72																															
NTM-E2 NTM-E3	73 64			69 61	69 61	69 6 61 6		8 68 0 60																									63 55			
NTM-E4	74	72	72	72	72	72 7	72 7	1 71	66	66	65	65	65	65	73	73	73 7	73	73	73	73	73	65	65	50	50	50	50	50	50	50	51	51	51	51	43
NTM-E5 NTM-E6	70 71				67 66																											0				
NTM-E7	64	59	59	59	59	59 5	59 5	8 58	54	54	54	54	54	54	55	55 5	55 5	55	55	55	55	55	54	54	52	52	52	52	52	52	52	52	52	52	52	52
NTM-E8 Notes:	71	70	69	69	69	09 6	9 6	9 69	66	ზშ	0/	0/	00	OO	OO	00 (00 6	OO	OO	OO	do	OO	OO	05	ъ4	ხ4	ъ4	64	ъ4	ъ4	64	64	5/	5/	5/	52

- Notes:

 1. As a worst case scenario, the predicted construction noise is calculated using the distance between the notional centre of the workfront to the NAP.
- Distance Attenuation, in dB(A) = -20 log D 8 (where D is the distance in metres).

 A +3 dB(A) façade correction was added to the predicted noise level to account for the façade effect at the
- 2. "D-wall, Piling & Excavation (NTM 1-8)" and "RC Structures (NTM 1-8)" will not take place concurrently. The worst case is adopted for calculation.
- 3. "D-wall, Piling & Excavation (NTM 20-24)" and "RC Structures (NTM 20-24)" will not take place concurrently. The worst case is adopted for calculation.
- 4. "Mined Tunnel NTD to Underrgound Tunnel (NTD > Underrgound Tunnel)" and "NTD C&C Tunnel (NTD >
- Underrgound Tunnel)" will not take place concurrently. The worst case is adopted for calculation.

 5. "Mined Tunnel NTD to Underrgound Tunnel (NTD > Underrgound Tunnel)" and "D&B Tunnel NTD to Underrgound Tunnel (NTD > Underrgound Tunnel)" will not take place concurrently. The worst case is adopted
- 6. D&B Tunnel NTD to Underrgound Tunnel (NTD > Underrgound Tunnel)" and "NTD C&C Tunnel Remaining Works (NTD > Underrgound Tunnel)" will not take place concurrently. The worst case is adopted for calculation.
 7. Text in bold and underline denotes exceedance of relevant criterion.

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Title: Construction Noise Calculation (Ngau Tam Mei Station (NTM), Ngau Tam Mei, Depot (NTD), Scenario : Mitigated Scenario

								031					
		1	2	3	4	5	6	7	8	9	10	11	12
Site Clearance, Preparation & Monitoring (NTM)	104												1
Road Works (NTM R1-1)	98												l
Road Works (NTM R1-2)	98												l
NTM Site Formation Works - Cut and Fill Works (NTM)	107												1
D-wall and Piling Trial (NTM 1-8, 8-20 & 20-24)	102												1
D-wall, Piling and Excavation (NTM 1-8)	108												1
D-wall, Piling and Excavation (NTM 8-20)	107												1
D-wall, Piling and Excavation (NTM 20-24)	104												1
RC Stuctures (NTM 1-8)	106												1
RC Stuctures (NTM 8-20)	104												1
RC Stuctures (NTM 20-24)	104	104	104										1
Structural Steel Works (NTM 8-20)	97	97											
Site Clearance, Preparation & Monitoring (NTD-1)	104												1
Site Clearance, Preparation & Monitoring (NTD-2)	104												1
Site Clearance, Preparation & Monitoring (NTD-3)	104												1
UU and Haul Road (NTD R1)	102												1
UU and Roadworks (NTD R1)	103												1
Backfilling Works (NTD-1)	110												1
Open Excavation Works (NTD-2)	101												1
Open Excavation Works (NTD-3)	101												1
Retaining Wall Construction, South (NTD RW(S))	110												1
Retaining Wall Construction,East (NTD RW(E))	105												1
Retaining Wall Construction, North (NTD RW(N))	104												1
Bored Pile Wall Construction, West (NTD BPW(W))	112												1
Foundation Works for Deck Enclosure (NTD-1)	106												1
Foundation Works for Deck Enclosure (NTD-2)	106												1
Foundation Works for Deck Enclosure (NTD-3)	106												1
NTD RC Stuctures (NTD-1)	102												1
NTD RC Stuctures (NTD-2)	105												1
NTD RC Stuctures (NTD-3)	105												1
Mined Tunnel NTD to Underground Tunnel (NTD > Underground Tunnel)	102												1
NTD C&C Tunnel (NTD > Underground Tunnel)	108												1
D&B Tunnel NTD to Underground Tunnel (NTD > Underground Tunnel)	102												1
NTD C&C Tunnel Remaining Works (NTD > Underground Tunnel)	108												1
NTD C&C Tunnel Backfilling (NTD > Underrgound Tunnel)	101												
Predicted Construction Noise, dB(A)		1						1	1				
NAP	Max												
NTM-F1	7/	5.4	51	Λ	Λ	Λ.	Λ.	0	Λ	Λ	Λ	Λ	. 0

Predicted Construction Noise, dB(A)													
NAP	Max												
NTM-E1	74	54	51	0	0	0	0	0	0	0	0	0	0
NTM-E2	73	59	56	0	0	0	0	0	0	0	0	0	0
NTM-E3	64	54	53	0	0	0	0	0	0	0	0	0	0
NTM-E4	74	43	0	0	0	0	0	0	0	0	0	0	0
NTM-E5	70	0	0	0	0	0	0	0	0	0	0	0	0
NTM-E6	71	0	0	0	0	0	0	0	0	0	0	0	0
NTM-E7	64	52	52	0	0	0	0	0	0	0	0	0	0
NTM-E8	71	52	50	0	0	0	0	0	0	0	0	0	0

Notes:

- 1. As a worst case scenario, the predicted construction noise is calculated using the distance between the notional centre of the workfront to the NAP.
- Distance Attenuation, in dB(A) = 20 log D 8 (where D is the distance in metres).

 A +3 dB(A) façade correction was added to the predicted noise level to account for the façade effect at the
- 2. "D-wall, Piling & Excavation (NTM 1-8)" and "RC Structures (NTM 1-8)" will not take place concurrently. The worst case is adopted for calculation.
- 3. "D-wall, Piling & Excavation (NTM 20-24)" and "RC Structures (NTM 20-24)" will not take place concurrently. The worst case is adopted for calculation.
- 4. "Mined Tunnel NTD to Underrgound Tunnel (NTD > Underrgound Tunnel)" and "NTD C&C Tunnel (NTD >
- Underrgound Tunnel)" will not take place concurrently. The worst case is adopted for calculation.

 5. "Mined Tunnel NTD to Underrgound Tunnel (NTD > Underrgound Tunnel)" and "D&B Tunnel NTD to Underrgound Tunnel (NTD > Underrgound Tunnel)" will not take place concurrently. The worst case is adopted
- 6. D&B Tunnel NTD to Underrgound Tunnel (NTD > Underrgound Tunnel)" and "NTD C&C Tunnel Remaining Works (NTD > Underrgound Tunnel)" will not take place concurrently. The worst case is adopted for calculation.
 7. Text in bold and underline denotes exceedance of relevant criterion.

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San Tin Station (SAT) & San Tin Ancillary Building (EEP/VB)

Title: Construction Noise Calculation (San Tin Station (SAT) & San Tin Ancillary Building (EEP/VB)) Scenario: Mitigated Scenario

						20:					,)27			•				1		2028				
		1	2	3 4	4 5	6	7	8			12		2		4 5	6	7	8 9	10	11	12	1 2	2 3	4	5	6	7 8	9	10	11 12
Site Clearance, Preparation & Monitoring (SAT)	104																											 		\vdash
Site Clearance, Preparation & Monitoring (SAT R1)	104											104																		
Site Clearance, Preparation & Monitoring (SAT R2)	104											104																		
Site Clearance, Preparation & Monitoring (SAT Ex)	104								104	104	104	104	104 1	04																
Site Formation Works (Backfilling) (SAT)	106																													
Road Works (SAT R1)	102								102	102	102	102																		
Road Works (SAT R2)	102								102	102	102	102																		
D-wall & Piling Trial (SAT)	102								102	102	102	102	102 1	02 1	102															
D-wall, Piling & Excavation (SAT N19-N27)	111													1	111 111	111	111	111 1°	1 111	111	111 1	11 11	11 11	1 111	111 1	11 1	11 11 ⁻	1 111	111	111 11
D-wall, Piling & Excavation (SAT N1-N19)	113													1	113 113	113	113	113 1 ⁻	3 113	113	113 1	13 11	13 113	3 113	113 1	13 1	13 113	3 113	113	113 11
D-wall, Piling & Excavation (SAT Station 1-32-a)	113													1	113 113	113	113	113 1 ⁻	3 113	3 113	113 1	13 11	3 113	3 113	113 1	13 1	13 113	3 113	113	113 11
D-wall, Piling & Excavation (SAT Station 1-32-b)	113													1	113 113	113	113	113 1	3 113	113	113 1	13 11	13 113	3 113	113 1	13 1	13 113	3 113	113	113 11
D-wall, Piling & Excavation (SAT S9-1)	109													1	109 109	109	109	109 10	9 109	109	109 1	09 10	9 109	109	109 1	09 1	09 109	109	109	109 10
D-wall, Piling & Excavation (SAT S1-S9)	107													1	107 107	107	107	107 10	7 107	107	107 1	07 10	7 107	7 107	107 1	07 1	07 107	7 107	107	107 10
RC Works (SAT N19-N27)	103																													
RC Works (SAT N1-N19)	108																													
RC Works (SAT 1-32)	110																													
RC Works (SAT S9-1)	108																													
RC Works (SAT S1-S9)	103																													
TBM Tunnel SAT to NTM (SAT S1-S9)	104																													
Preliminary Works (SAT AB)	104								104	104																				
UU, Road Works & Site Formation (SAT AB)	103								103	103	103																			
Cofferdam Works (SAT AB)	103											103	103																	
Foundation Works (SAT AB)	105												1	05 1	105 105	105	105	105 10	15											
Excavation Works (SAT AB)	99																													
RC Works (SAT AB)	106																											1		
Construction Works for Concrete Batching Plant (CBP)	111								111	111	111																	1		
Operational Works for Concrete Batching Plant (CBP)	108											108	108 1	08 1	108 108	108	108	108 10	8 108	108	108 1	08 10	08 108	3 108	108 1	08 1	08 108	3 108	108	108 10
Demolition Works for Concrete Batching Plant (CBP)	95																													
						1 1	1		1						1	I	1	<u> </u>				1					1		1	
Other Concurrent Projects																												1		
Predicted Construction Noise from CE20 at SAT-E4, dB(A)									65	65	64	64	64 6	64	64 64	64	66	66 6	6 66	66	66	66 66	6 66	65	65 6	65 6	65 65	65	65	65 65
Predicted Construction Noise, dB(A)		1		1			I																							
NAP	Max						+													\perp			1					$\pm -$		
SAT-E1	70	0		_	_	0			0 65																					
SAT-E2 SAT-E3	72 69	0		0 0	_			_	0 67 0 64	67 64	67 64	67	67 6	67 63	72 72 69 69	72 69	72 60	72 7 60 6	2 72	72 60	60	2 72	2 72	72 60	72 T	72 7	(2 72 30 60	72	72 60	72 7 69 6
SAT-E4	74	0		0 0					0 74																					71 7
SAT-E5	71	0	0	0 (0 0	0	0	0	0 69	69	68	66	66 6	67	71 71	71	71	71 7	1 70	70	70	0 70	0 70	70	70	70 7	70 70	70	70	70 7
SAT-E6	71	0	0	0 (0 0	0	0	0	0 65	65	65	65	65 6	65	70 70	70	70	70 7	0 70	70	70	70 70	0 70	70	70 7	70 7	70 70	70	70	70

- 1. As a worst case scenario, the predicted construction noise is calculated using the distance between the notional centre of the workfront to the NAP.
- Distance Attenuation, in $dB(A) = -20 \log D 8$ (where D is the distance in metres).
- A +3 dB(A) façade correction was added to the predicted noise level to account for the façade effect at the
- 2. "Site Clearance, Preparation & Monitoring" and "Road Works" will not take place concurrently. The worst case is adopted for calculation.
- 3. "D-wall & Piling Trial" and "D-wall, Piling & Excavation" will not take place concurrently. The worst case is adopted for calculation.
 4. "D-wall, Piling & Excavation (SAT N19-N27)" and "RC Works (SAT N19-N27)" will not take place concurrently.
- The worst case is adopted for calculation.
- 5. "Excavation Works (SAT AB)" and "RC Works (SAT AB)" will not take place concurrently. The worst case is adopted for calculation.
- 6. Noise from construction vehicles has been included in the calculation.
- 7. The cumulative impact from CE20 has been included in the calculation for SAT-E4.
- 8. Text in bold and underline denotes exceedance of relevant criterion.

Title: Construction Noise Calculation (San Tin Station (SAT) & San Tin Ancillary Building (EEP/VB)) Scenario: Mitigated Scenario

	<u> </u>						29										2030											2031				
N. O	101	1	2	3 4	1 5	6	7	8	9	10 1	11 1	12	1 2	3	4	5	6	7 8	3 9	10	11	12	1	2	3 4	4 5	6	7	8	9 10	<u>) 11</u>	12
Site Clearance, Preparation & Monitoring (SAT)	104																									+	+	—	+			+
Site Clearance, Preparation & Monitoring (SAT R1)	104																									\perp	\perp	\bot			\bot	\bot
Site Clearance, Preparation & Monitoring (SAT R2)	104																									\bot	\perp	<u> </u>				_
Site Clearance, Preparation & Monitoring (SAT Ex)	104																									\bot	\bot	Ш			Ш	ᆚ
Site Formation Works (Backfilling) (SAT)	106						106	106	106 1	106 1	106 1	06 10	06 106	106	106	106 1	06 1	06 10	06 10	6 106	106	106	106	106	106 1	06 10	6 106	106	106	106 106	6 106	ò
Road Works (SAT R1)	102																															
Road Works (SAT R2)	102																															
O-wall & Piling Trial (SAT)	102																															
O-wall, Piling & Excavation (SAT N19-N27)	111	111																														
0-wall, Piling & Excavation (SAT N1-N19)	113	113	113	113 1 ⁻	13 113	113	113	113	113 1	113 1	13 1	13 1 ⁻	13 113	113	113	113 1	13															
0-wall, Piling & Excavation (SAT Station 1-32-a)	113	113	113	113 1 ⁻	13 113	113	113	113	113 1	113 1	13 1	13 1 ⁻	13 113																			
0-wall, Piling & Excavation (SAT Station 1-32-b)	113	113	113	113 1 ⁻	13 113	113	113	113	113 1	113 1	13 1	13 1 ⁻	13 113																			
0-wall, Piling & Excavation (SAT S9-1)	109	109	109	109 10	09 109	109	109	109	109 1	109 1	109 1	09 10	09 109	109	109	109 1	09 1	09 10	9 10	9 109												
D-wall, Piling & Excavation (SAT S1-S9)	107	107	107																							\top						
RC Works (SAT N19-N27)	103	103	103	103 10	03 103	103	103	103	103 1	103 1	03 1	03 10	03 103	103	103	103 1	03 1	03 10	3 10	3 103	103							1				\top
RC Works (SAT N1-N19)	108															1	08 1	08 10	08 10	8 108	108	108	108	108	108 1	08 10	8 108	3 108	,		1	1
C Works (SAT 1-32)	110													110	110	110 1	10 1	10 11	0 11	0 110	110	110	110	110	110 1	10		1			+	+
CC Works (SAT S9-1)	108																			108	108	108	108	108	108 1	08 10	18	1			+	+
RC Works (SAT S1-S9)	103		103	103 10	03 103	103	103	103	103 1	103 1	103 1	03 10	03 103	103	103	103 1	03 1	03 10	3 10	3 103	103	103	103	103	103 1	03 10	3 103	3 103	,		+	+
TBM Tunnel SAT to NTM (SAT S1-S9)	104																								104 10							+
Preliminary Works (SAT AB)	104																									\top					+	+
JU, Road Works & Site Formation (SAT AB)	103																									+	+	+	+		+	+
Cofferdam Works (SAT AB)	103															+		+			1				-	+	+	+	+	-	+	+
Foundation Works (SAT AB)	105															+		+			1				-	+	+	+	+	-	+	+
Excavation Works (SAT AB)	99				99	99	99	99								+		+			1				-	+	+	+	+	-	+	+
RC Works (SAT AB)	106								106 1	106 1	06 1	06 10	06 106			-		-							-+	+	+	+	+	+	+	+
Construction Works for Concrete Batching Plant (CBP)	111																									+	+	+-	+	_	+	+
Operational Works for Concrete Batching Plant (CBP)	108	108	108	108 10	08 108	108	108	108	108 1	108 1	108 1	08 10	08 108	108	108	108 1	08 1	08 10	08 10	8 108	108	108	108	108	108 1	08 10	8 108	3 108	108	108 108	108	8 10
Demolition Works for Concrete Batching Plant (CBP)	95		.00	.00			.00	.00					100	100							100	100	.00	100		,,,	- 100	1.00	100	100 100	- 100	1.0
Similari Works to Control Editing Fidul (CEF)																										—		ш			—	Ш.
Other Concurrent Projects																									\top	\top	\top	T	\prod		\top	T
Predicted Construction Noise from CE20 at SAT-E4, dB(A)		65	65	65 6	5 65	65	64	64	64 (64 6	64 6	64 6	64 64	64	69	69	69 7	2 7	2 7:	2 72	72	72	72	72	72 7	72 7:	2 72	71	71	71 71	1 71	7
Predicted Construction Noise, dB(A)		1																							$\overline{}$	7	\pm	_	$\overline{\Box}$			_
IAP	Max																								#	丰	#	1			#	工
SAT-E1 SAT-E2	70 72	69	69	69 6	9 69	69	70	70	70	70 7	70 7	70 7	70 70	67	70	67 (67 6	6 6	7 6	7 67	67	67 60	67 60	67 60	67 6	i7 65	5 64	64	64	64 64 66 66	6 66	10
"AL EE	60	69	69	69 6	9 69	69	69	69	69 (69 6	69 6	39 6	69 69	68	68	68 (69 6	65 6	5 6	5 65	65	65	65	65	65 6	35 6	5 65	65	61	61 61	1 61	6
AT-E3	09																															
SAT-E3 SAT-E4 SAT-E5	74	71	70	70 7	0 70	70	70	70	70	70 7	70 7	70 7	70 70	70	72	72	72 7	4 7	4 74	1 74	74	74	74	74	74 7	73 73	3 73	73	73	73 73 64 64	3 73	3 73

- 1. As a worst case scenario, the predicted construction noise is calculated using the distance between the notional centre of the workfront to the NAP.
- Distance Attenuation, in $dB(A) = -20 \log D 8$ (where D is the distance in metres).
- A +3 dB(A) façade correction was added to the predicted noise level to account for the façade effect at the
- 2. "Site Clearance, Preparation & Monitoring" and "Road Works" will not take place concurrently. The worst case is adopted for calculation.
- 3. "D-wall & Piling Trial" and "D-wall, Piling & Excavation" will not take place concurrently. The worst case is
- adopted for calculation.

 4. "D-wall, Piling & Excavation (SAT N19-N27)" and "RC Works (SAT N19-N27)" will not take place concurrently. The worst case is adopted for calculation.
- 5. "Excavation Works (SAT AB)" and "RC Works (SAT AB)" will not take place concurrently. The worst case is adopted for calculation.
- 6. Noise from construction vehicles has been included in the calculation.
- 7. The cumulative impact from CE20 has been included in the calculation for SAT-E4.
- 8. Text in bold and underline denotes exceedance of relevant criterion.

Title: Construction Noise Calculation (San Tin Station (SAT) & San Tin Ancillary Building (EEP/VB)) Scenario: Mitigated Scenario

						032	. 1								2033			. 1	1						034				
Site Clearance, Preparation & Monitoring (SAT)	104	1 2	3	4 5	6	7 8	9	10	11	12	1 2	3	4	5	6	7 8	3 9	10	11	12	1	2 3	4	5 6	7	8	9 1	10 1	1 12
																											_	+	_
Site Clearance, Preparation & Monitoring (SAT R1)	104															_											_	+	_
Site Clearance, Preparation & Monitoring (SAT R2)	104																										+	+	_
Site Clearance, Preparation & Monitoring (SAT Ex)	104																											_	
Site Formation Works (Backfilling) (SAT)	106																										\perp	\perp	
Road Works (SAT R1)	102																										\perp	\perp	
Road Works (SAT R2)	102																										\perp	\perp	
D-wall & Piling Trial (SAT)	102																												
D-wall, Piling & Excavation (SAT N19-N27)	111																												
D-wall, Piling & Excavation (SAT N1-N19)	113																												
D-wall, Piling & Excavation (SAT Station 1-32-a)	113																												
D-wall, Piling & Excavation (SAT Station 1-32-b)	113																												
D-wall, Piling & Excavation (SAT S9-1)	109																												
D-wall, Piling & Excavation (SAT S1-S9)	107																												
RC Works (SAT N19-N27)	103																												
RC Works (SAT N1-N19)	108																												
RC Works (SAT 1-32)	110																												
RC Works (SAT S9-1)	108																												
RC Works (SAT S1-S9)	103																												
TBM Tunnel SAT to NTM (SAT S1-S9)	104																										_		
Preliminary Works (SAT AB)	104																										+	+	
UU, Road Works & Site Formation (SAT AB)	103																										_	_	
Cofferdam Works (SAT AB)	103																										+	+	
Foundation Works (SAT AB)	105																										+	+	_
Excavation Works (SAT AB)	99																										+	+	_
RC Works (SAT AB)	106																										+	+	-
Construction Works for Concrete Batching Plant (CBP)	111																										_	+	-
Operational Works for Concrete Batching Plant (CBP)	108	108 108	108	108 108	3 108	108 10	10	8 108	108	108 1	08 10	8 108	8 108	108	108 1	18 10	18 10	108	108	108 1	108 1	108 108	108	108 108			+	+	-
Demolition Works for Concrete Batching Plant (CBP)	95	100 100	100	100 100	7 100	100 10	10	0 100	100	100 1	00 10	100	100	100	100 1	00 10		70 100	100	100	100	100 100	100	100 100	_	95	95	+	+
Definition works for controlle batching Flank (Obl.)	33																								33	55	55		
Other Concurrent Projects																													
Predicted Construction Noise from CE20 at SAT-E4, dB(A)		71 71	71	72 72	72	73 73	3 73	3 72	72	72 7	72 72	72	71	71	71 7	1 7	1 7	1 71	71	71	71	71 71	68	68 68	68	68	68		
Predicted Construction Noise, dB(A)					1							1											1		1		$\overline{}$	$\overline{}$	$\overline{+}$
NAP	Max			0 0	_			_			0 0	_	_						^		0	0 0	_	0 0	^		\perp		$\overline{\bot}$
SAT-E1 SAT-E2	70 72				0										0							0 0							0 0
SAT-E3	69	60 60	60	60 60	60	60 60	0 60	60	60	60 6	60	60	60	60	60 6	0 6	0 6	0 60	60	60	60	60 60	60	60 60	57	57	57	0 0	0 0
SAT-E4	74	73 73	73	74 74	74	74 74	4 74	1 74	74	74 7	74 74	74	73	73	73 7	3 7	3 7	3 73	73	73	73	73 73	71	71 71	71	71	71	0 0	0 0
SAT-E5 SAT-E6	71	64 64 0 0	64	64 64	64	64 64	4 64	1 64	64	64 6	64 64	64	64	64	64 6	4 6	4 6	4 64	64	64	64	64 64	64	64 64	58	58	58	0 (0
Notes:	/ 1	0 0	U	0 0	U	U U	, 0	U	U	U	0 0	U	U	U	U	<i>)</i> (, (, [0	U	U	U	UUU	U	U U	U	U	U	U L	, 0

- 1. As a worst case scenario, the predicted construction noise is calculated using the distance between the notional centre of the workfront to the NAP.
- Distance Attenuation, in $dB(A) = -20 \log D 8$ (where D is the distance in metres).
- A +3 dB(A) façade correction was added to the predicted noise level to account for the façade effect at the
- 2. "Site Clearance, Preparation & Monitoring" and "Road Works" will not take place concurrently. The worst case is adopted for calculation.
- 3. "D-wall & Piling Trial" and "D-wall, Piling & Excavation" will not take place concurrently. The worst case is
- adopted for calculation.

 4. "D-wall, Piling & Excavation (SAT N19-N27)" and "RC Works (SAT N19-N27)" will not take place concurrently. The worst case is adopted for calculation.
- 5. "Excavation Works (SAT AB)" and "RC Works (SAT AB)" will not take place concurrently. The worst case is adopted for calculation.
- 6. Noise from construction vehicles has been included in the calculation.
- 7. The cumulative impact from CE20 has been included in the calculation for SAT-E4.
- 8. Text in bold and underline denotes exceedance of relevant criterion.

Subtitle:

		SWL			Total			[2]			Correc	tion [1]			SPL
Source	Period	/ Unit dB(A)	Qty Nos	% Util	SWL dB(A)	Dist m	Speed kph	Angle deg	Dist dB(A)	Facade dB(A)	Air dB(A)	Speed dB(A)	Angle dB(A)	Topo dB(A)	Daytime dB(A)
Lorry, 5.5 tonne < gross vehicle weight ≦ 38 tonne (Harl Road 1)	II	105	166	100	127	105	20	115	-20	3	0	-13	-2		62
											Noise	Impacts fr	om Haul R	oad, dB(A)	62

Note:

Project:

- I Daytime, evening and night-time operation
- II Daytime operation only
- III Evening operation only

- [1]: Based on BS 5228 Pt 1: 1997 D3.5.2 Method for mobile plant using a regular well defined route (haul road) $L_{eq} = L_w$ 33 + 10 log (Qty) 10 log (speed) -10 log (dist) + 10 log (angle /180) + C_{facade}
- [2]: A view angle of 180 deg has been assumed for conservative assessment

Subtitle:

		SWL			Total			[2]			Correc	tion [1]			SPL
Source	Period	/ Unit	Qty	% Util	SWL	Dist	Speed	Angle	Dist	Facade	Air	Speed	Angle	Торо	Daytime
		dB(A)	Nos		dB(A)	m	kph	deg	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)
Lorry, 5.5 tonne < gross vehicle weight ≦ 38 tonne (Harl Road 1)	II	105	166	100	127	85	20	140	-19	3	0	-13	-1		64
											Noise	Impacts fr	om Haul R	oad, dB(A)	64

Note:

Project:

- I Daytime, evening and night-time operation
- II Daytime operation only
- III Evening operation only

- [1]: Based on BS 5228 Pt 1: 1997 D3.5.2 Method for mobile plant using a regular well defined route (haul road) $L_{eq} = L_w$ 33 + 10 log (Qty) 10 log (speed) -10 log (dist) + 10 log (angle /180) + C_{facade}
- [2]: A view angle of 180 deg has been assumed for conservative assessment

Subtitle:

		SWL			Total			[2]			Correc	tion [1]			SPL
Source	Period	/ Unit	Qty	% Util	SWL	Dist	Speed	Angle	Dist	Facade	Air	Speed	Angle	Торо	Daytime
		dB(A)	Nos		dB(A)	m	kph	deg	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)
Lorry, 5.5 tonne < gross vehicle weight ≦ 38 tonne (Harl Road 1)	II	105	167	100	127	180	20	65	-23	3	-1	-13	-4		57
Noise Impacts from Haul Road, dB(A)														57	

Note:

Project:

- I Daytime, evening and night-time operation
- II Daytime operation only
- III Evening operation only

- [1]: Based on BS 5228 Pt 1: 1997 D3.5.2 Method for mobile plant using a regular well defined route (haul road) $L_{eq} = L_w$ 33 + 10 log (Qty) 10 log (speed) -10 log (dist) + 10 log (angle /180) + C_{facade}
- [2]: A view angle of 180 deg has been assumed for conservative assessment

Subtitle:

		SWL			Total			[2]			Correc	tion [1]			SPL
Source	Period	/ Unit	Qty	% Util	SWL	Dist	Speed	Angle	Dist	Facade	Air	Speed	Angle	Торо	Daytime
		dB(A)	Nos		dB(A)	m	kph	deg	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)
Lorry, 5.5 tonne < gross vehicle weight ≦ 38 tonne (Harl Road 1)	II	105	167	100	127	40	20	180	-16	3	0	-13	0		68
			-	•							Noise	Impacts fr	om Haul R	oad, dB(A)	68

Note:

Project:

- I Daytime, evening and night-time operation
- II Daytime operation only
- III Evening operation only

- [1]: Based on BS 5228 Pt 1: 1997 D3.5.2 Method for mobile plant using a regular well defined route (haul road) $L_{eq} = L_w$ 33 + 10 log (Qty) 10 log (speed) -10 log (dist) + 10 log (angle /180) + C_{facade}
- [2]: A view angle of 180 deg has been assumed for conservative assessment

Subtitle:

		SWL			Total			[2]			Correc	tion [1]			SPL
Source	Period	/ Unit	Qty	% Util	SWL	Dist	Speed	Angle	Dist	Facade	Air	Speed	Angle	Topo	Daytime
		dB(A)	Nos		dB(A)	m	kph	deg	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)
Lorry, 5.5 tonne < gross vehicle weight ≦ 38 tonne (Harl Road 1)	11	105	167	100	127	140	20	60	-21	3	0	-13	-5		58
	Noise Impacts from Haul Road, dB(A) 58												58		

Note:

Project:

- I Daytime, evening and night-time operation
- II Daytime operation only
- III Evening operation only

- [1]: Based on BS 5228 Pt 1: 1997 D3.5.2 Method for mobile plant using a regular well defined route (haul road) $L_{eq} = L_w$ 33 + 10 log (Qty) 10 log (speed) -10 log (dist) + 10 log (angle /180) + C_{facade}
- [2]: A view angle of 180 deg has been assumed for conservative assessment

Subtitle:

		SWL			Total			[2]			Correc	tion [1]			SPL	
Source	Period	/ Unit dB(A)	Qty Nos	% Util	SWL dB(A)	Dist m	Speed kph	Angle deq	Dist dB(A)	Facade dB(A)	Air dB(A)	Speed dB(A)	Angle dB(A)	Topo dB(A)	Daytime dB(A)	
Lorry, 5.5 tonne < gross vehicle weight ≦ 38 tonne (Harl Road 1)	Ш	105	167	100	127	340	20	NA		re is located	more than		from NAP S		`	
									Noise Impacts from Haul Road, dB(A)							

Note:

Project:

Title:

I - Daytime, evening and night-time operation

II - Daytime operation only

III - Evening operation only

[1]: Based on BS 5228 Pt 1: 1997 D3.5.2 Method for mobile plant using a regular well defined route (haul road) $L_{eq} = L_w$ - 33 + 10 log (Qty) - 10 log (speed) -10 log (dist) + 10 log (angle /180) + C_{facade}

[2]: A view angle of 180 deg has been assumed for conservative assessment

Ka Lung Road Ancillary Building (EAP/EEP)

Title: Construction Noise Calculation (Ka Lung Road Ancillary Building (EAP/EEP))

Scenario: Scenario with Cumulative Impact from Concurrent Projects (No Mitigation Measures Required)

						2	026									20	27										2028				
		1	2	3	4 5	6	7	8	9 10) 11	12 1	2	2 3	4	5	6	7 8	3 9) 10	0 11	12	1	2	3	4	5	6 7	7 8	9	10 1	11 12
Preliminary Works (Whole Area)	117								11	7 117																					
UU, Road Works and Site Formation (AB11-b)	116									116	116 116	3 11	16																		
Site Formation (Bored Pile) (AB11-BPW)	117										117 117	7 11	17 117	7 117	117	117	117 1	17													
Cofferdam Works (AB11-a)	119																11	19 11	19 11	9											
Foundation Works (AB11-a)	118																	11	18 11	8 118	8 118	118	118								
Excavation Works (AB11-a)	116																						116	116	116 1	116 1	16 11	116	116	116 1	16
RC Works (AB11-a)	117																													1	17 11
Retaining Wall Works (AB11-a)	116																														
Other Concurrent Projects																															
Predicted Construction Noise from CE20 at KLR-E1 for cumulative impact assessment, dB(A)									68	68	69 69	6	9 69	64	64	64	65 6	5 6	5 6	5 65	65	65	65	65	63	63 6	63 6	5 65	65	65 6	i5 6
Predicted Construction Noise, dB(A)	•																														$\overline{}$
NAP	Max						1					1						1													+
KLR-E1	71	0	0	0	0 0	0	0	0	0 70	70	71 71	7	1 69	66	66	66	67 6	7 6	8 68	8 67	67	67	67	66	65	65 6	65 66	6 66	66	66 f	6 6

- 1. As a worst case scenario, the predicted construction noise is calculated using the distance between the notional centre of the workfront to the NAP.
- Distance Attenuation, in $dB(A) = -20 \log D 8$ (where D is the distance in metres).
- A +3 dB(A) façade correction was added to the predicted noise level to account for the façade effect at the
- 2. "Preliminary Works" and "UU, Road Works and Site Formation" will not take place concurrently. The worst case is adopted for calculation.

 3. "Site Formation (Bored Pile)" and "Cofferdam Works" will not take place concurrently. The worst case is
- adopted for calculation.
- 4. "Foundation Works" and "Excavation Works" will not take place concurrently. The worst case is adopted for calculation.
- 5. "Excavation Works" and "RC Works" will not take place concurrently. The worst case is adopted for
- 6. Text in bold and underline denotes exceedance of relevant criterion.
- 7. The cumulative impact from CE20 has been included in the calculation for KLR-E1.
- 8. No mitigation measures are required as construction noise exceedance is not anticipated.

Title: Construction Noise Calculation (Ka Lung Road Ancillary Building (EAP/EEP))

Scenario: Scenario with Cumulative Impact from Concurrent Projects (No Mitigation Measures Required)

						20)29					
	1	2	3	4	5	6	7	8	9	10	11	12
117												
116												
117												
119												
118												
116												
117	117	117	117	117	117	117	117	117	117	117	117	117
116					116	116	116	116				
	65	65	65	65	65	65	64	64	64	64	64	64
	116 117 119 118 116 117	116 117 119 118 116 117 117 116	117 116 117 119 118 116 117 117 117 116	117 116 117 119 118 116 117 117 117 117 116	117 116 117 119 118 116 117 117 117 117 117 116	117 116 117 119 118 116 117 117 117 117 117 117 116	1 2 3 4 5 6 117 116 117 119 118 116 117 117 117 117 117 117 117 116	117 116 117 119 118 116 117 117 117 117 117 117 117 117 116	1 2 3 4 5 6 7 8 117 116 117 119 118 116 117 117 117 117 117 117 117 117 117 116 116 116 116 116 116 116	1 2 3 4 5 6 7 8 9 117 116 117 119 118 116 117 117 117 117 117 117 117 117 117 117	1 2 3 4 5 6 7 8 9 10 117 116 117 119 118 116 117 117 117 117 117 117	1 2 3 4 5 6 7 8 9 10 11 117 116 117 119 118 116 117 117 117 117 117 117 117 117 117 1

Predicted Construction Noise, dB(A)													
NAP	Max												
KLR-E1	71	66	66	66	67	67	67	67	67	66	66	66	66

- 1. As a worst case scenario, the predicted construction noise is calculated using the distance between the notional centre of the workfront to the NAP.
- Distance Attenuation, in $dB(A) = -20 \log D 8$ (where D is the distance in metres).
- A +3 dB(A) façade correction was added to the predicted noise level to account for the façade effect at the
- 2. "Preliminary Works" and "UU, Road Works and Site Formation" will not take place concurrently. The worst case is adopted for calculation.

 3. "Site Formation (Bored Pile)" and "Cofferdam Works" will not take place concurrently. The worst case is
- adopted for calculation.
- 4. "Foundation Works" and "Excavation Works" will not take place concurrently. The worst case is adopted for calculation.
- 5. "Excavation Works" and "RC Works" will not take place concurrently. The worst case is adopted for
- 6. Text in bold and underline denotes exceedance of relevant criterion.
- 7. The cumulative impact from CE20 has been included in the calculation for KLR-E1.
- 8. No mitigation measures are required as construction noise exceedance is not anticipated.

Kwu Tung Road Ancillary Building (EAP/EEP/VB)

Title: Construction Noise Calculation (Kwu Tung Road Ancillary Building (EAP/EEP/VB))

Scenario: Mitigated Scenario

		2026															2027										20	028				
		1	2	3 4	- 5	6	7	8	9	10 1	1 12	1	2	3	4	5	6	7	8 9	10	11	12	1	2	3 4	4 5	6	7	8	9	10 1	1 12
Preliminary Works (AB13)	104								1	104 1	04 104	1																				
UU, Road Works and Site Formation (AB13)	103									1	03 103	3																	1			
Cofferdam Works (AB13)	113												113	113	113	113	13 1	13 1	13 113	3 113	113	113	113	113 1	13				1			113
Foundation Works (AB13)	107											107	107	107	107														107	107	107 10	07 107
Excavation Works (AB13)	99																											99	99	99	99 9	99 99
Road Works (AB13)	100																										100	100	100			
RC Works (AB13)	106																												1			
Predicted Construction Noise, dB(A)																																
NAP	Max																															
KTR-E1	67	0	0	0 0	0	0	0	0	0	64 6	67																					
KTR-E2	67	0	0	0 0	0	0	0	0	0		67																					
KTR-E3	59	0	0	0 0	0	0	0	0	0 4	49 5	51 51	52	58	58	58	57	57 5	57 5	57 57	57	57	57	57	57 5	57 (0 0	45	48	53	53	53 5	53 59

Notes:

1. As a worst case scenario, the predicted construction noise is calculated using the distance between the

As a worst case scenario, the predicted construction noise is calculated using the distance between the notional centre of the workfront to the NAP.
 Distance Attenuation, in dB(A) = -20 log D - 8 (where D is the distance in metres).
 A +3 dB(A) façade correction was added to the predicted noise level to account for the façade effect at the NAP.
 Cell with shaded area denotes the unoccupancy of the NAP (i.e. being resumed under San Tin Lok Ma Chau Development Node).
 Text in bold and underline denotes exceedance of relevant criterion.

Title: Construction Noise Calculation (Kwu Tung Road Ancillary Building (EAP/EEP/VB))

Scenario: Mitigated Scenario

							20	129											20	30					
		1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12
Preliminary Works (AB13)	104																								
UU, Road Works and Site Formation (AB13)	103																								
Cofferdam Works (AB13)	113	113	113	113	113	113																			
Foundation Works (AB13)	107																								
Excavation Works (AB13)	99	99																							
Road Works (AB13)	100																								
RC Works (AB13)	106		106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106						
Predicted Construction Noise, dB(A)																								_	T
NAP	Max																								1
KTR-E1	67																								
KTR-E2	67																								
KTR-E3	59	58	58	58	58	58	51	51	51	51	51	51	51	51	51	51	51	51	51	0	0	0	0	0	0

KTR-E3

Notes:

1. As a worst case scenario, the predicted construction noise is calculated using the distance between the notional centre of the workfront to the NAP.

- Distance Attenuation, in dB(A) = - 20 log D - 8 (where D is the distance in metres).

- A +3 dB(A) façade correction was added to the predicted noise level to account for the façade effect at the

NAP.

2. Cell with shaded area denotes the unoccupancy of the NAP (i.e. being resumed under San Tin Lok Ma

Chau Development Node).

3. Text in bold and underline denotes exceedance of relevant criterion.

Pak Shek Au Ancillary Building (EAP/EEP)

Title: Construction Noise Calculation (Pak Shek Au Ancillary Building (EAP/EEP))

Scenario: Mitigated Scenario

							20	25											2026												202	27					
		1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4 !	i (ô	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	1
Preliminary Works (AB14)	104				104	104																														in the second	
JU, Road Works and Site Formation (AB14)	103					103	103	103	103	103																										i	
Cofferdam Works (AB Area)	110							110	110	110	110																									i	
Foundation Works (AB Area)	111										111	111	111	111	111	111																				i	
Excavation Works (AB14)	99																	9	9 9	99 9	99	99	99	99	99	99										i	
RC Works (AB14)	106																									106	106	106	106	106	106	106	106	106	106	i	
Site Clearance and Establishment (CLP Site Clearance)	100																									100										i	
Construction of Permanent Substation (CLP Substation Construction)	102																									102	102	102	102	102	102	102	102	102	102	102	10
Predicted Construction Noise, dB(A)					- 1	-					1										-				- 1	-	- 1				- 1	- 1					_
NAP	Max																																		\longrightarrow	—	+
PSA-E1	70	0	0	0	69	69	68	70	70	70	66	66	66	66	66	66	0 (6	64 6	64 6	64	64	64	64	64	66	62	62	62	62	62	62	62	62	62	55	5

1. As a worst case scenario, the predicted construction noise is calculated using the distance between the notional centre of the workfront to the NAP.

- Distance Attenuation, in dB(A) = 20 log D 8 (where D is the distance in metres).
 A +3 dB(A) façade correction was added to the predicted noise level to account for the façade effect at the NAP.

 2. Preliminary Works and UU, Road Works and Site Formation will not take place concurrently. The worst case
- is adopted for calculation.
- 3. Cofferdam Works and Foundation Works will not take place concurrently. The worst case is adopted for calculation.
- 4. Site Clearance and Establishment (CLP) and Construction Temporary Substsation (CLP) will not take place concurrently. The worst case is adopted for calculation.

 5. Text in bold and underline denotes exceedance of relevant criterion.

Title: Construction Noise Calculation (Pak Shek Au Ancillary Building (EAP/EEP))

Scenario: Mitigated Scenario

							20	28					
		1	2	3	4	5	6	7	8	9	10	11	12
Preliminary Works (AB14)	104												
UU, Road Works and Site Formation (AB14)	103												
Cofferdam Works (AB Area)	110												
Foundation Works (AB Area)	111												
Excavation Works (AB14)	99												
RC Works (AB14)	106												
Site Clearance and Establishment (CLP Site Clearance)	100												
Construction of Permanent Substation (CLP Substation Construction)	102	102	102	102	102	102	102	102	102	102	102	102	

Predicted Construction Noise, dB(A)													
NAP	Max												
PSA-E1	70	55	55	55	55	55	55	55	55	55	55	55	0

- 1. As a worst case scenario, the predicted construction noise is calculated using the distance between the notional centre of the workfront to the NAP.
- Distance Attenuation, in dB(A) = 20 log D 8 (where D is the distance in metres).
 A +3 dB(A) façade correction was added to the predicted noise level to account for the façade effect at the NAP.

 2. Preliminary Works and UU, Road Works and Site Formation will not take place concurrently. The worst case
- is adopted for calculation.
- 3. Cofferdam Works and Foundation Works will not take place concurrently. The worst case is adopted for calculation.
- 4. Site Clearance and Establishment (CLP) and Construction Temporary Substsation (CLP) will not take place concurrently. The worst case is adopted for calculation.

 5. Text in bold and underline denotes exceedance of relevant criterion.

Kwu Tung Station (KTU) (NOL)

Title: Construction Noise Calculation (Kwu Tung Station (KTU) (NOL))

Scenario: Mitigated Scenario

					20)25										2	2026							L						2027	7					
	1	2	3	4 5	5 6				10	11 1	2 1	2	3	4	5	6	7		3 !	9	10	11	12	1	2	3	4	Ŧ	5	6	7	8	9	10	11	12
Site Mobilisation (KTU 1e)	108					108	108	108																												
Site Mobilisation (KTU 1a)	108										108	108	108	108	108	108	3																			
Site Mobilisation (KTU 1b)	108										108	108	108	108	108	108	3																			
Site Mobilisation (KTU 1c)	108										108	108	108	108	108	108	3																			
Site Mobilisation (KTU 1d)	108										108	108	108	108	108	108	3																			
Site Clearance (Remove KTU (EAL) Site Office) (KTU 2a)	112										112	2 112	112	112	112	112	2																			
GI and Foundation Works (KTU 3a)	105		1	05 10	105	105	105	105	105 1	05 1	05 105	105	105	105	105	105	5 10	5 10	5 1	05	105	105	105	105	105	5 10	5									
GI and Foundation Works (KTU 3b)	106		1	06 10	106	106	106	106	106 1	06 1	06 106	106	106	106	106	106	3 10	6 10	06 1	06	106	106	106	106	106	10	6 10	6 1	06 1	06 1	106	106	106			
GI and Foundation Works (KTU 3c)	105		1	05 10	105	105	105	105	105 1	05 1	05 105	105	105	105	105	105	5 10	5 10)5 1	05	105	105	105	105	105	5 10	5 10	5 1	05 1	05 1	105	105	105	105	105	10
GI and Foundation Works (KTU 3d)	107													107	107	107	7 10	7 10	7 1	07	107	107	107	107	107	7 10	7 10	7 1	07 1	07 1	107	107	107	107	107	10
GI and Foundation Works (KTU 3f)	109													109	109	109	10	9 10	9 1	09	109	109	109	109	109	10	9 10	9 1	09 1	09 1	109	109	109	109	109	10
GI and Foundation Works (KTU 3g)	107													107	107	107	7 10	7 10	7 1	07	107	107	107	107	107	7 10	7 10	7 1	07 1	07 1	107	107	107	107	107	107
Excavation and Structural Works (KTU 5a)	106																																	106	106	10
Excavation and Structural Works (KTU 5b)	106																																	106	106	10
Excavation and Structural Works (KTU 5c)	106																																			Ī
Excavation and Structural Works (KTU 5d)	106																																			
Excavation and Structural Works (KTU 5f)	106																																			
Excavation and Structural Works (KTU 5g)	106																																			
Breakthrough (at Councourse) (KTU 6a)	0																																			
Breakthrough (at Councourse) (KTU 6b)	0																																			
Breakthrough (at Councourse) (KTU 6c)	0																																			
Breakthrough (at Platform) (KTU 6a)	0																																			
Breakthrough (at Platform) (KTU 6b)	0																																			
Breakthrough (at Platform) (KTU 6c)	0																																			
ABWF, BS, Systemwide E&M Installations, SATs & SIT (KTU 7a)	103																																			
EAP4 Above-ground Structure Demolition Works (KTU 8a)	115																																	115	115	11
TBM Tunnel KTU to SAT (KTU-TBM)	105																																			
		1	1			1		L			i i	-	1	- 1	ı		-	-	-		ı					-		- 1						_		
Other Concurrent Projects																																				
Predicted Construction Noise from NENT (S1022)	111													111	111	111	1 11	1 11	1 1	11																
Predicted Construction Noise from NENT (S1023)	111													111	111	111	1 11	1 11	1 1	11																
Predicted Construction Noise from NENT (S1024)	111													111	111	111	1 11	1 11	1 1	11																
Predicted Construction Noise from NENT (S1040)	107/111						107	107	107 1	07 1	07 107	7 107	7 107	107	107	107	7 10	7 11	1 1	11	111	111	111	111												
Predicted Construction Noise from NENT (S1054)	112		1	12 11	112	112	112	112	112 1	12																							\perp			
Predicted Construction Noise, dB(A)	M																															耳	耳	耳	=	_
NAP KTU-P1	Max 64 0	0	0 5		8 58									63								61	61	61	59	59	55	8 5	58 5	58	58	58	58	64	64	64
KTU-P2 KTU-P3	72 0 65	0			7 67											68								69					66 6	66	66	66	66		71	
KTU-P4	60																																			
KTU-P5 KTU-P6	59 75		-	+					+	+			H				+	Ŧ	+	+				H	\vdash		H	+	+	+						
KTU-P7	74			,, -	0 70	70	70	70	70	70	70 30									,,	70	70	7.						,	, ,	07	07		7.	7/	
KTU-P8	74 0	0	0 7	72 7	2 72	72	73	73	/3	73 7	72 72	72	72	73	73	73	73	3 7	3 7	′3	73	73	73	73	72	72	2 6	/ (57 6	57	67	67	67	74	74	74

Notes:

- 1. As a worst case scenario, the predicted construction noise is calculated using the distance between the notional centre of the workfront to the NAP.

 - Distance Attenuation, in dB(A) = - 20 log D - 8 (where D is the distance in metres).

 - A +3 dB(A) façade correction was added to the predicted noise level to account for the façade effect at the

- NAP.

 2. "Site Mobilisation" and "Site Clearance (Remove KTU (EAL) Site Office)" will not take place concurrently. The worst case is adopted for calculation.

 3. "Site Clearance (Remove KTU (EAL) Site Office)" and "GI and Foundation Works (KTU 3a, KTU 3b and KTU 3b).

- 3c)" will not take place concurrently. The worst case is adopted for calculation.

 4. "Site Mobilisation" and "GI and Foundation Works" will not take place concurrently. The worst case is adopted for calculation.
- 5. The cumulative noise impacts from the construction of North East New Territories New Development Areas
- (NENT) are considered by making referce to the approved EIA report "North East New Territories New Development Areas" (AEIAR-175/2013). Only construction noise sources within 300m of the NAPs are included for calculating cumulative impacts.
- 6. There are no occupancy of the NAPs KTU-P3, KTU-P4, KTU-P5, KTU-P6, KTU-7 during the construction period of NENT.
- 7. Text in bold and underline denotes exceedance of relevant criterion.

 8. Cell with shaded area denotes the unoccupancy of the NAPs (i.e. before the population intake).
- 9. All PME for breakthrough will operate underground and are not included in the calculation.

Title: Construction Noise Calculation (Kwu Tung Station (KTU) (NOL))

Scenario: Mitigated Scenario

						2028	1						1	1	_	20:												2030					
Site Mobilisation (KTU 1e)	108	1	2 3	4	5 (3 7	8	9	10	11 1	12 1	1 2	3	3 4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10 1	1 12
	108																																
Site Mobilisation (KTU 1a)																																	
Site Mobilisation (KTU 1b)	108																																
Site Mobilisation (KTU 1c)	108																																
Site Mobilisation (KTU 1d)	108																																
Site Clearance (Remove KTU (EAL) Site Office) (KTU 2a)	112																																
GI and Foundation Works (KTU 3a)	105																																
GI and Foundation Works (KTU 3b)	106																																
GI and Foundation Works (KTU 3c)	105																																
GI and Foundation Works (KTU 3d)	107		107 107																														
GI and Foundation Works (KTU 3f)	109		109 109																														
GI and Foundation Works (KTU 3g)	107		107 107																														
Excavation and Structural Works (KTU 5a)	106		106 106																									L	_		_		
Excavation and Structural Works (KTU 5b)	106	106	106 106	106	106 10	06 106	106	106																				1	106 1	06 1	06 1	106 10)6 10
Excavation and Structural Works (KTU 5c)	106	106	106 106	106	106 10	06 106	106	106	106 1	106 1	106 10	06 10	6 10	106	6 106	106	106	106	106	106	106	106 1	106 1	106	106	106	106 1	06				\perp	
Excavation and Structural Works (KTU 5d)	106					106	106	106	106 1	106 1	106 10	06 10	6 10	106	6 106	106	106	106	106	106	106	106 1	106 1	106	106	106	106 1	106 1	106 1	06 1	06 1	106 10)6 10
Excavation and Structural Works (KTU 5f)	106					106	106	106	106	106 1	106 10	06 10	6 10	106	6 106	106	106	106	106	106	106	106 1	106 1	106	106	106	106 1	106 1	106 1	06 1	06 1	106 10	06 10
Excavation and Structural Works (KTU 5g)	106					106	106	106	106	106 1	106 10	06 10	6 10	106	6 106	106	106	106	106	106	106	106 1	106 1	106	106	106	106 1	106 1	106 1	106 1	06 1	106 10	06 10
Breakthrough (at Councourse) (KTU 6a)	0																												0	0	0	0 0	0 0
Breakthrough (at Councourse) (KTU 6b)	0																												0	0	0	0 0	0 0
Breakthrough (at Councourse) (KTU 6c)	0																												0	0	0	0 0	0 0
Breakthrough (at Platform) (KTU 6a)	0																												0	0	0	0 0	0 0
Breakthrough (at Platform) (KTU 6b)	0																												0	0	0	0 0	0 0
Breakthrough (at Platform) (KTU 6c)	0																												0	0	0	0 0	0 0
ABWF, BS, Systemwide E&M Installations, SATs & SIT (KTU 7a)	103																														Т	\top	
EAP4 Above-ground Structure Demolition Works (KTU 8a)	115	115	115 115	115	115 1	15																											
TBM Tunnel KTU to SAT (KTU-TBM)	105							105	105 1	105 1	105 10	05 10	5 10	5 105	5 105	105	105	105	105	105	105	105 1	105 1	05 1	105	105	105 1	105 1	105 1	105 1	05 1	105 10	05
	,				ı	'	1																						_				_
Other Concurrent Projects																																	
Predicted Construction Noise from NENT (S1022)	111																																
Predicted Construction Noise from NENT (S1023)	111																																
Predicted Construction Noise from NENT (S1024)	111																																
Predicted Construction Noise from NENT (S1040)	107/111																																
Predicted Construction Noise from NENT (S1054)	112																											\perp	\perp	\perp	\perp		
Predicted Construction Noise, dB(A)																												工	工	工	工	工	
NAP KTU-P1	Max 64	64	64 64	64	64 6	4 60	60	61	50	50 4	50 5	(Q E) 50	0 50	50	50	50	50	50	50	50	50	50 4	50	50	50	50	50	59 5	50	50	50 5	59 56
KTU-P2	72		72 72													68						68	68 6	68	68	68	68	68 6	68 6	68 6	68 6	68 6	8 64
KTU-P3 KTU-P4	65 60			\dashv	+					+	+		H						4										64 6 58 5			64 6 58 5	64 64 68 58
KTU-P5	59																						58 \$	58	58	58	58	58 5	58 5	58 5	58 5	58 5	58 58
KTU-P6 KTU-P7	75 74			\dashv	+					+			H																			72 7 71 7	
KTU-P8	74	74	74 74	74	74 7	4 73	73	74	69	69 6	69 6	9 69	69	9 69	69	69	69	69	69	69	69	69	69 (69	69	69	69	69	70	70	70	70 7	0 67

Notes:

- 1. As a worst case scenario, the predicted construction noise is calculated using the distance between the notional centre of the workfront to the NAP.

 - Distance Attenuation, in dB(A) = - 20 log D - 8 (where D is the distance in metres).

 - A +3 dB(A) façade correction was added to the predicted noise level to account for the façade effect at the

- NAP.

 2. "Site Mobilisation" and "Site Clearance (Remove KTU (EAL) Site Office)" will not take place concurrently. The worst case is adopted for calculation.

 3. "Site Clearance (Remove KTU (EAL) Site Office)" and "GI and Foundation Works (KTU 3a, KTU 3b and KTU 3b).

- 3c)" will not take place concurrently. The worst case is adopted for calculation.

 4. "Site Mobilisation" and "GI and Foundation Works" will not take place concurrently. The worst case is adopted for calculation.
- 5. The cumulative noise impacts from the construction of North East New Territories New Development Areas
- (NENT) are considered by making referce to the approved EIA report "North East New Territories New Development Areas" (AEIAR-175/2013). Only construction noise sources within 300m of the NAPs are included for calculating cumulative impacts.
- 6. There are no occupancy of the NAPs KTU-P3, KTU-P4, KTU-P5, KTU-P6, KTU-7 during the construction period of NENT.
- 7. Text in bold and underline denotes exceedance of relevant criterion.

 8. Cell with shaded area denotes the unoccupancy of the NAPs (i.e. before the population intake).
- 9. All PME for breakthrough will operate underground and are not included in the calculation.

Title: Construction Noise Calculation (Kwu Tung Station (KTU) (NOL))

Scenario: Mitigated Scenario

					,		20												20												203					
Cite Mahilication (I/TH 4a)	1 40		1 2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11 12
Site Mobilisation (KTU 1e)	10																																			
Site Mobilisation (KTU 1a)	10																																			
Site Mobilisation (KTU 1b)	10																																			
Site Mobilisation (KTU 1c)	10	8																																		
Site Mobilisation (KTU 1d)	10	8																																		
Site Clearance (Remove KTU (EAL) Site Office) (KTU 2a)	11	2																																		
GI and Foundation Works (KTU 3a)	10	5																																		
GI and Foundation Works (KTU 3b)	10	6																																		
GI and Foundation Works (KTU 3c)	10	5																																		
GI and Foundation Works (KTU 3d)	10	7																																		
GI and Foundation Works (KTU 3f)	10	9																																		
GI and Foundation Works (KTU 3g)	10	7																																		
Excavation and Structural Works (KTU 5a)	10	6																								106	106	106	106	106	106					
Excavation and Structural Works (KTU 5b)	10	6 10	06 10	6 106																																
Excavation and Structural Works (KTU 5c)	10	6			1																															
Excavation and Structural Works (KTU 5d)	10	6 10	06 10	6 106	106	106	106	106	106	106																										
Excavation and Structural Works (KTU 5f)	10	6 10	06 10	6 106	106	106	106	106	106	106																										
Excavation and Structural Works (KTU 5g)	10	6 10	06 10	6 106	106	106	106	106	106	106																										
Breakthrough (at Councourse) (KTU 6a)	0	(0 0	0	0	0	0	0	0	0																										
Breakthrough (at Councourse) (KTU 6b)	0	(0 0	0	0	0	0	0	0	0																										
Breakthrough (at Councourse) (KTU 6c)	0		0 0	0	0	0	0	0	0	0																										
Breakthrough (at Platform) (KTU 6a)	0		0 0	0	0	0	0	0	0	0	0	0	0																							
Breakthrough (at Platform) (KTU 6b)	0		o o	0	0	0	0	0	0	0	0	0	0																							
Breakthrough (at Platform) (KTU 6c)	0		o o	0	0	0	0	0	0	0	0	0	0																							
ABWF, BS, Systemwide E&M Installations, SATs & SIT (KTU 7a)	10	3				103	103		103		103	103	103	103	103	103	103	103	103	103	103	103	103	103	103											
EAP4 Above-ground Structure Demolition Works (KTU 8a)	11																																			
TBM Tunnel KTU to SAT (KTU-TBM)	10																																			
I San Garage Country	1	<u> </u>	- 1		1											l															l l					
Other Concurrent Projects																																				
Predicted Construction Noise from NENT (S1022)	11	1																																		
Predicted Construction Noise from NENT (S1023)	11	1																																		
Predicted Construction Noise from NENT (S1024)	11	1																																		
Predicted Construction Noise from NENT (S1040)	107/1	11																																		
Predicted Construction Noise from NENT (S1054)	11	2																																		
Predicted Construction Noise, dB(A)																																				$\overline{}$
NAP KTU-P1	Ma				E 4	E 4	E4	F.4	E4	EA	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	E 4	E 4	F.4	E4	E4	E4	_	_	0	0	0 1
KTU-P2	72		66 56 64 64	1 64			54 60	60	60	60	53	53	53	53	53	53	53	53	53		53	53	53	53	53	54 62	62		62		54 62		0	0		0 0
KTU-P3	65		64 64		65	65	65	65	65	65	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	0	0	0		0		0	0	0	0	0 0
KTU-P4 KTU-P5	60 59		58 58 58 58		60 59		60 59			60 59		54 53																	0	0	_	0	_	0		0 0
KTU-P6	75	5 7	2 72	2 72	75	75	75	75	75	75	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	0	0	0	0	0	0	0	0	0	0	0 0
KTU-P7 KTU-P8		1 7					74																										0			0 0
Notes:		4 6	וט וו	ן ט	59	59	59	59	59	59	ეკ	ეკ	೦೨	ეკ	ეკ	ეკ	ექ	ეკ	ექ	ეკ	ეკ	ರಿತ	ეკ	ეკ	ეკ	12	12	12	12	12	12	U	U	U	U	0 0

- 1. As a worst case scenario, the predicted construction noise is calculated using the distance between the notional centre of the workfront to the NAP.

 - Distance Attenuation, in dB(A) = - 20 log D - 8 (where D is the distance in metres).

 - A +3 dB(A) façade correction was added to the predicted noise level to account for the façade effect at the

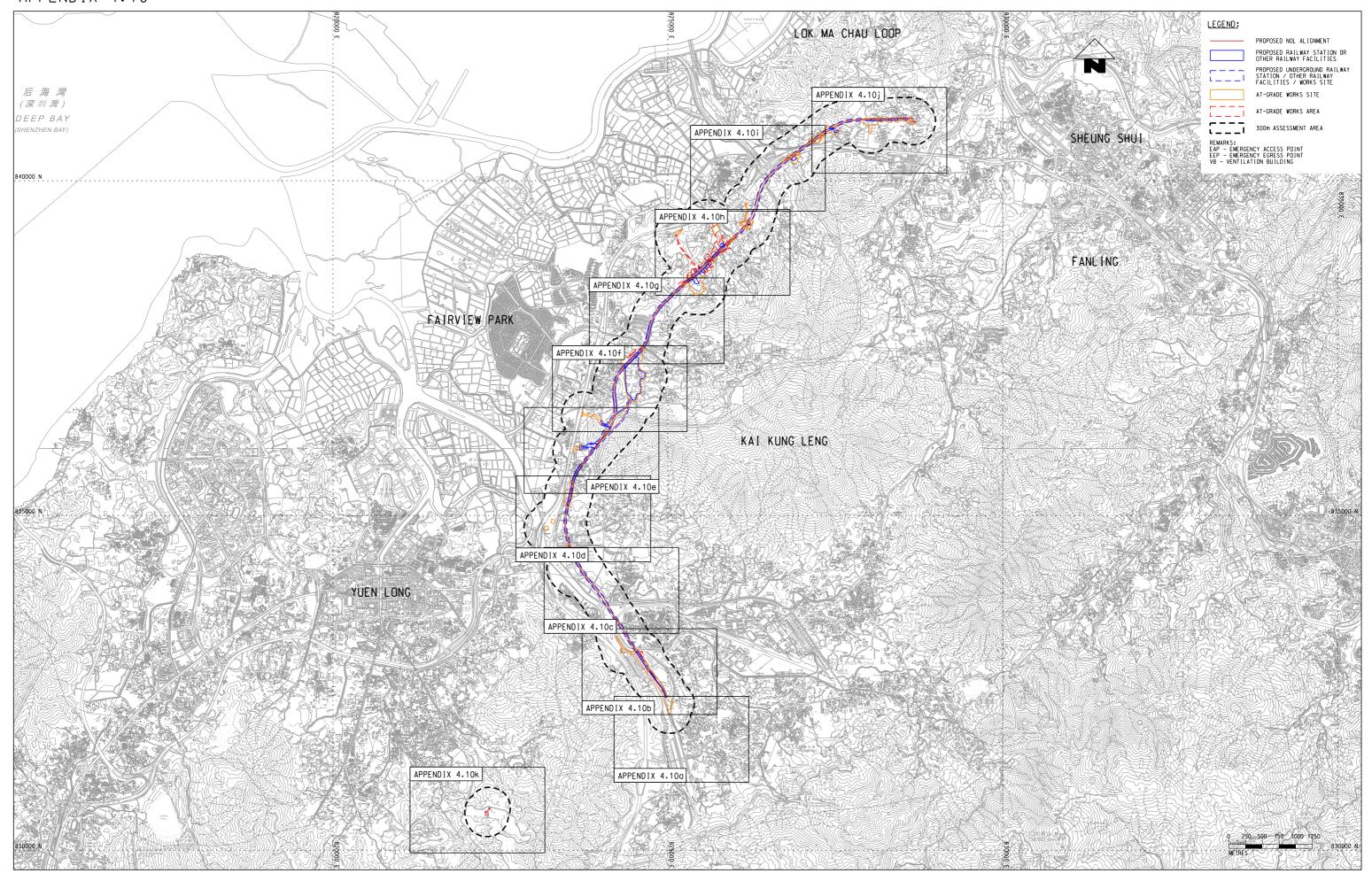
- NAP.

 2. "Site Mobilisation" and "Site Clearance (Remove KTU (EAL) Site Office)" will not take place concurrently. The worst case is adopted for calculation.

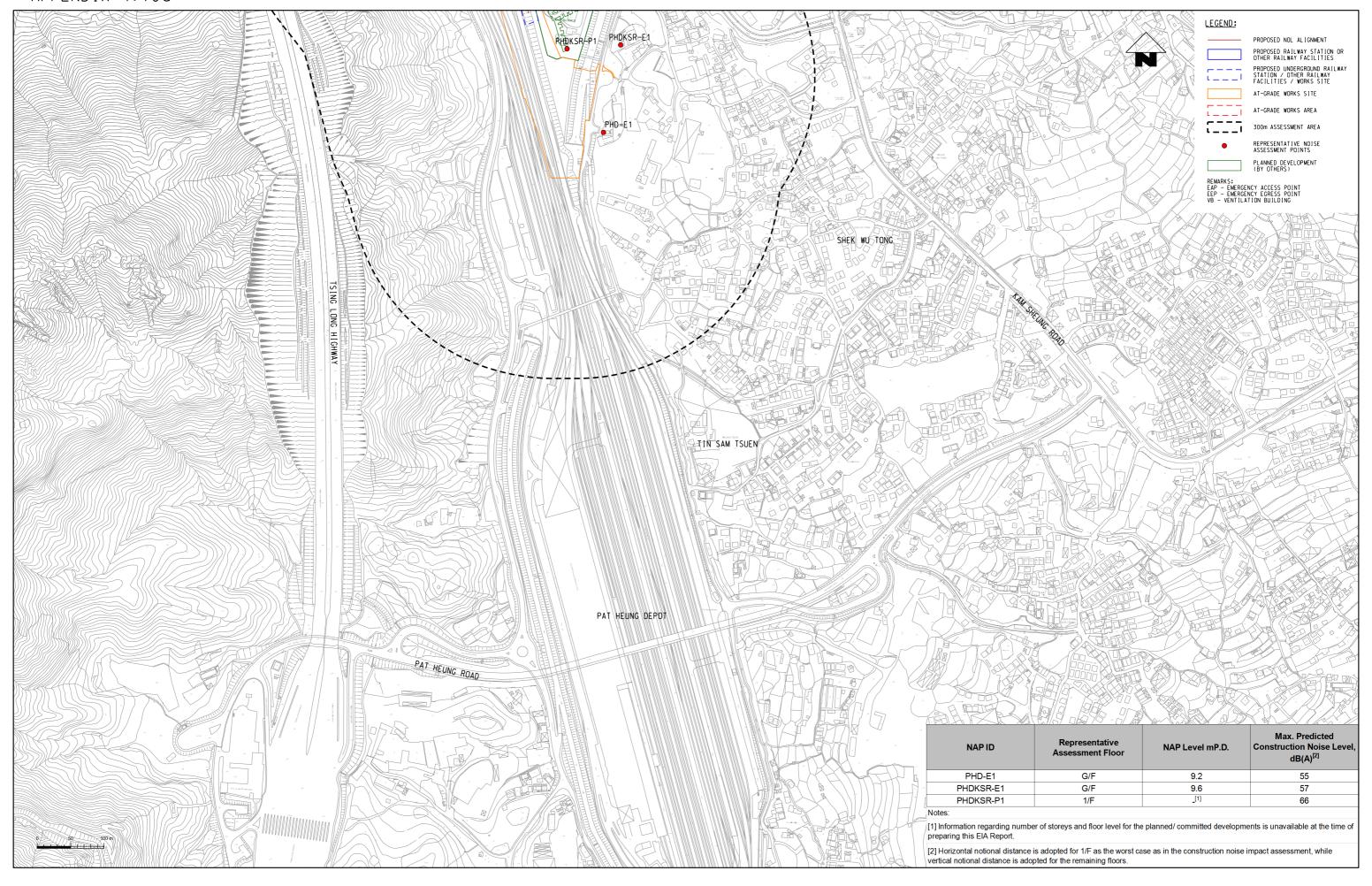
 3. "Site Clearance (Remove KTU (EAL) Site Office)" and "GI and Foundation Works (KTU 3a, KTU 3b and KTU 3b).
- 3c)" will not take place concurrently. The worst case is adopted for calculation.

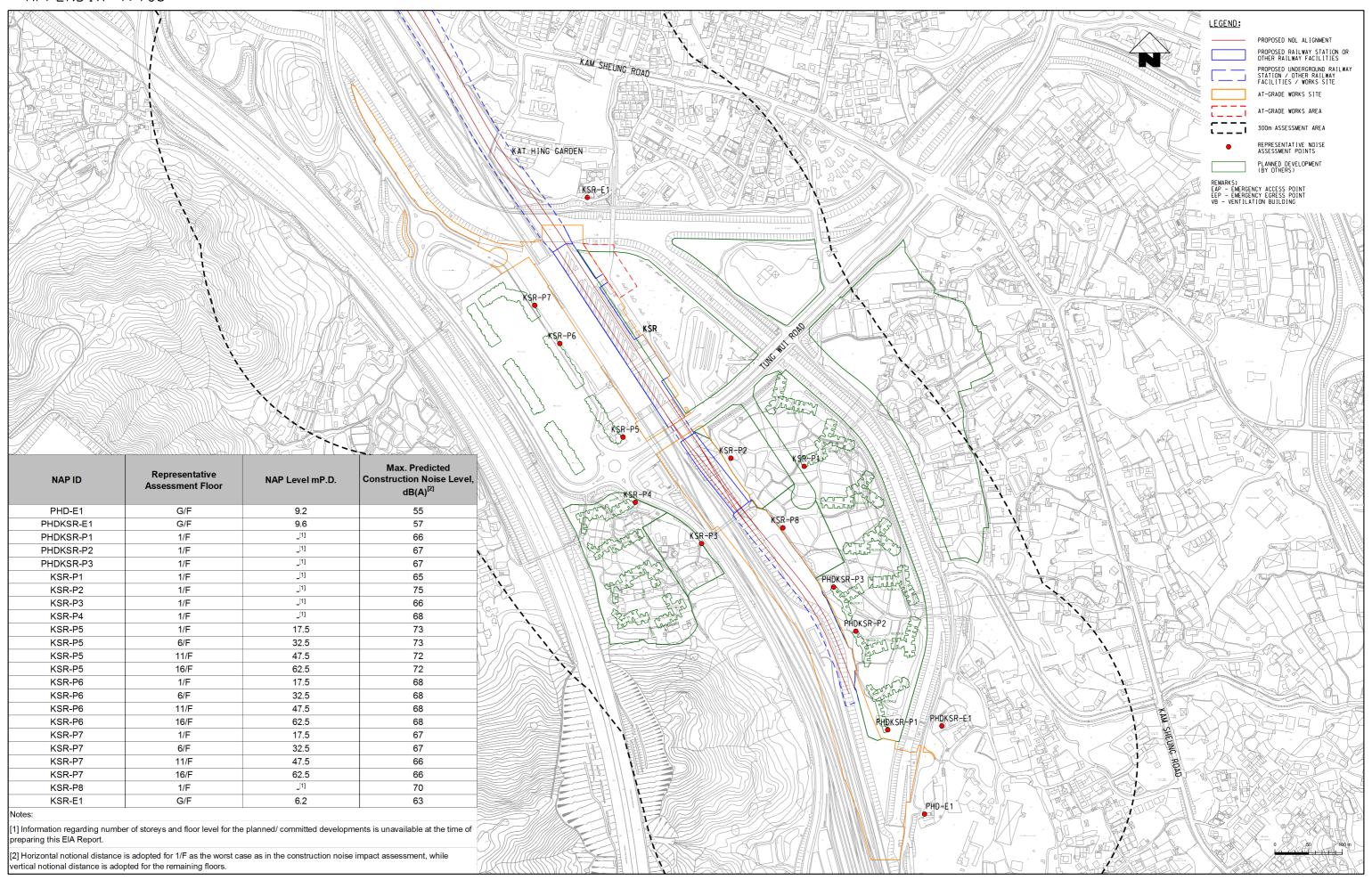
 4. "Site Mobilisation" and "GI and Foundation Works" will not take place concurrently. The worst case is adopted
- for calculation. 5. The cumulative noise impacts from the construction of North East New Territories New Development Areas
- (NENT) are considered by making referce to the approved EIA report "North East New Territories New Development Areas" (AEIAR-175/2013). Only construction noise sources within 300m of the NAPs are included for calculating cumulative impacts.
- 6. There are no occupancy of the NAPs KTU-P3, KTU-P4, KTU-P5, KTU-P6, KTU-7 during the construction period of NENT.
- 7. Text in bold and underline denotes exceedance of relevant criterion.

 8. Cell with shaded area denotes the unoccupancy of the NAPs (i.e. before the population intake).
- 9. All PME for breakthrough will operate underground and are not included in the calculation.

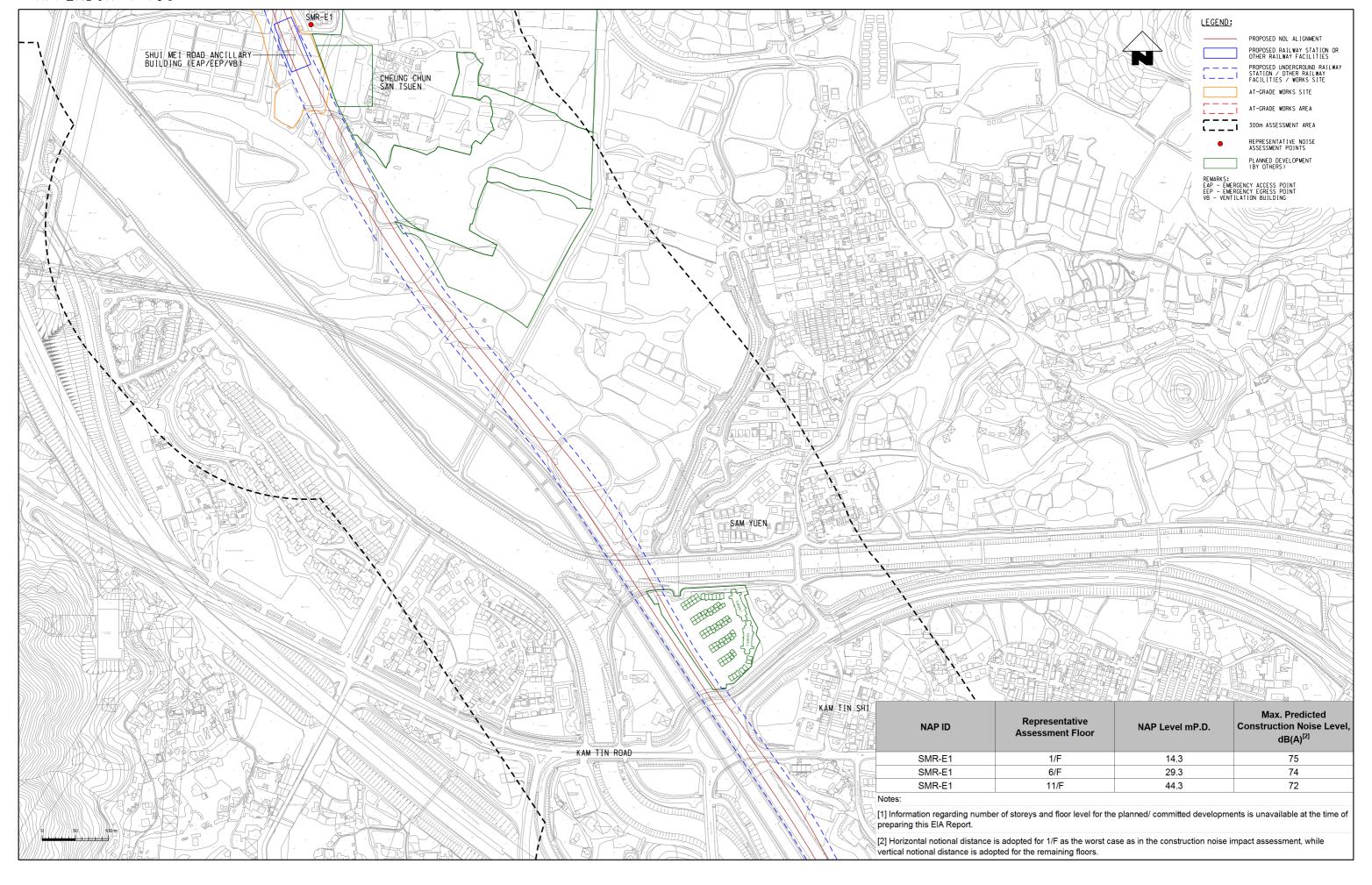


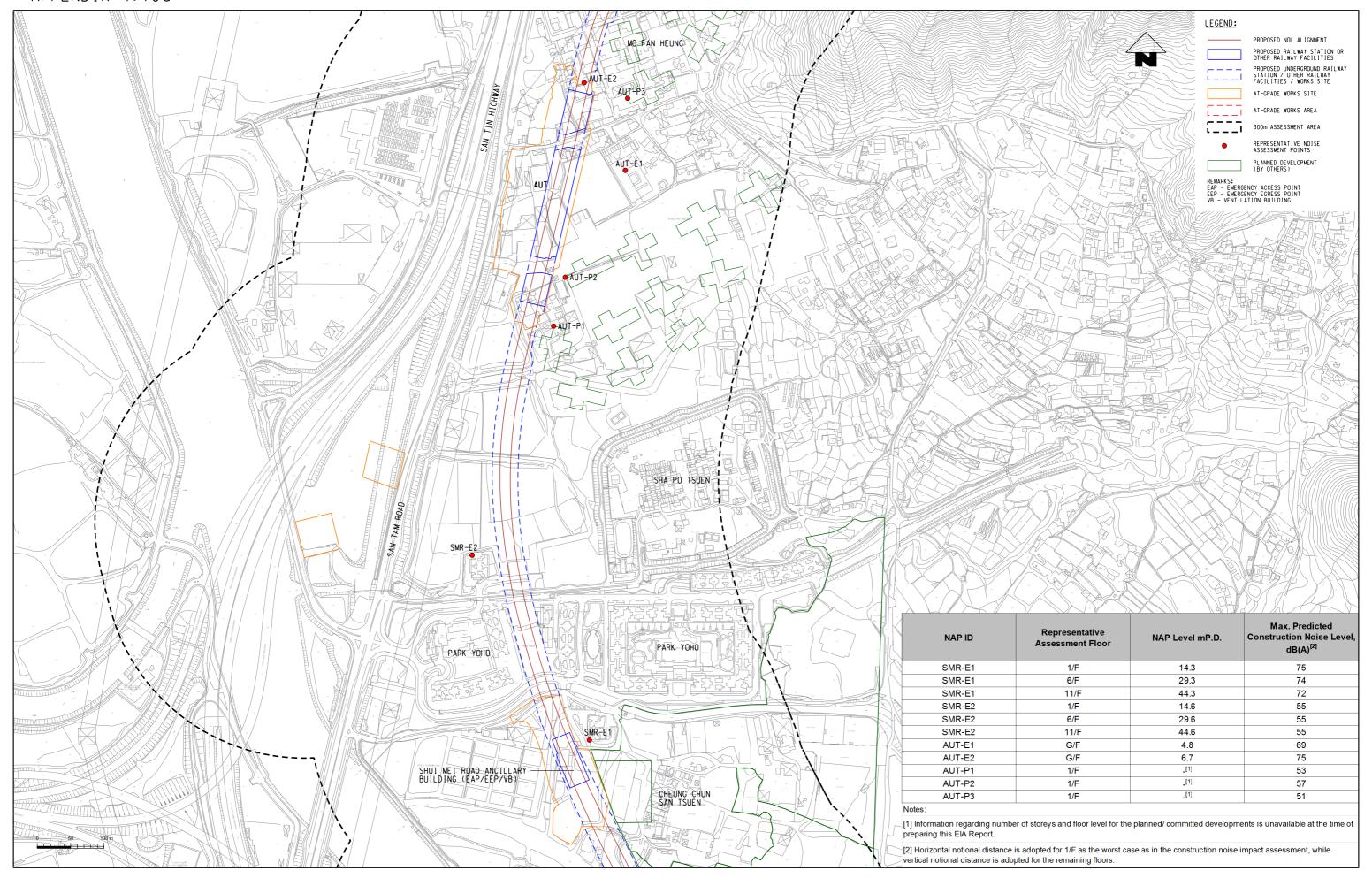
APPENDIX 4.10a



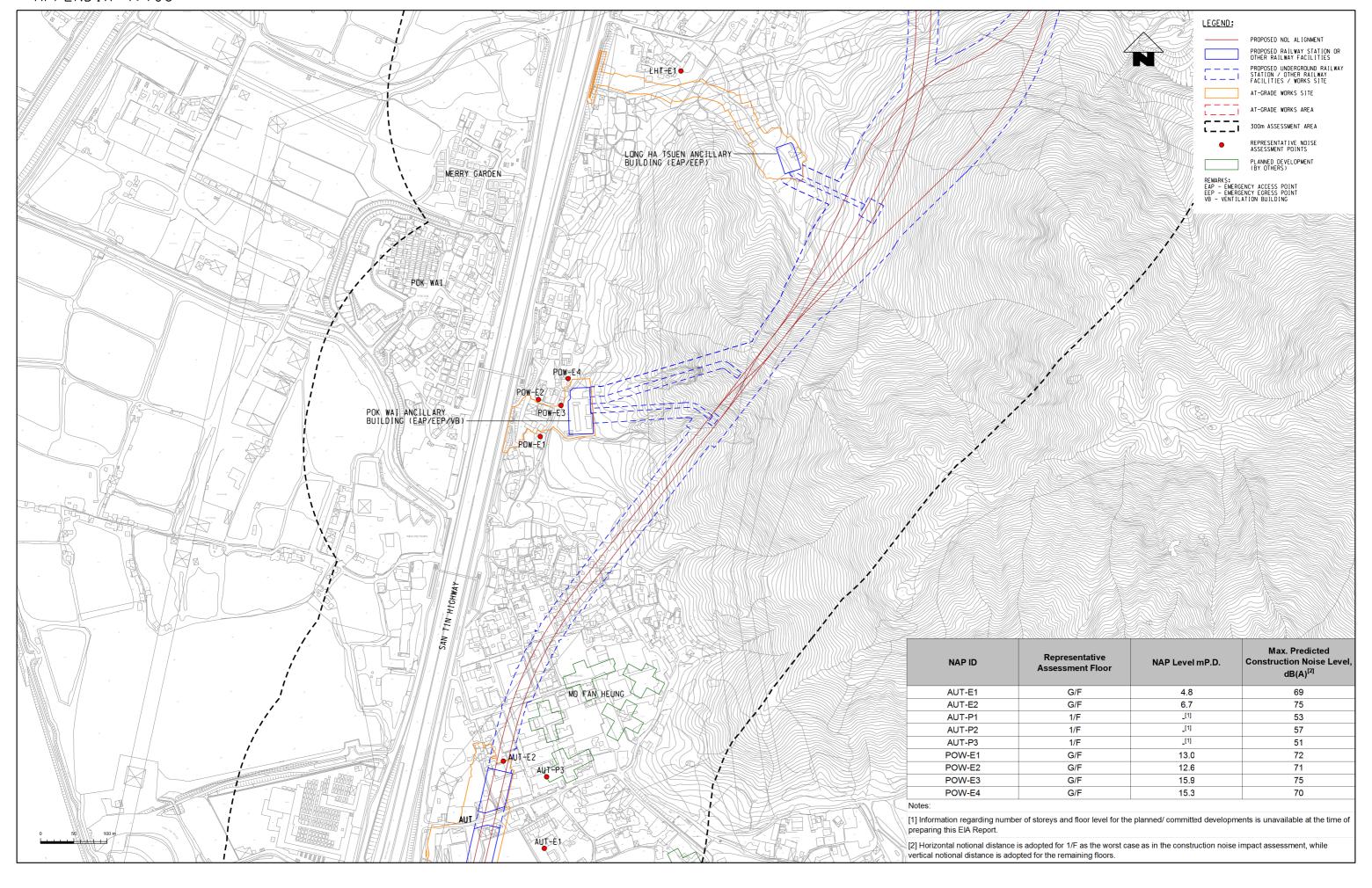


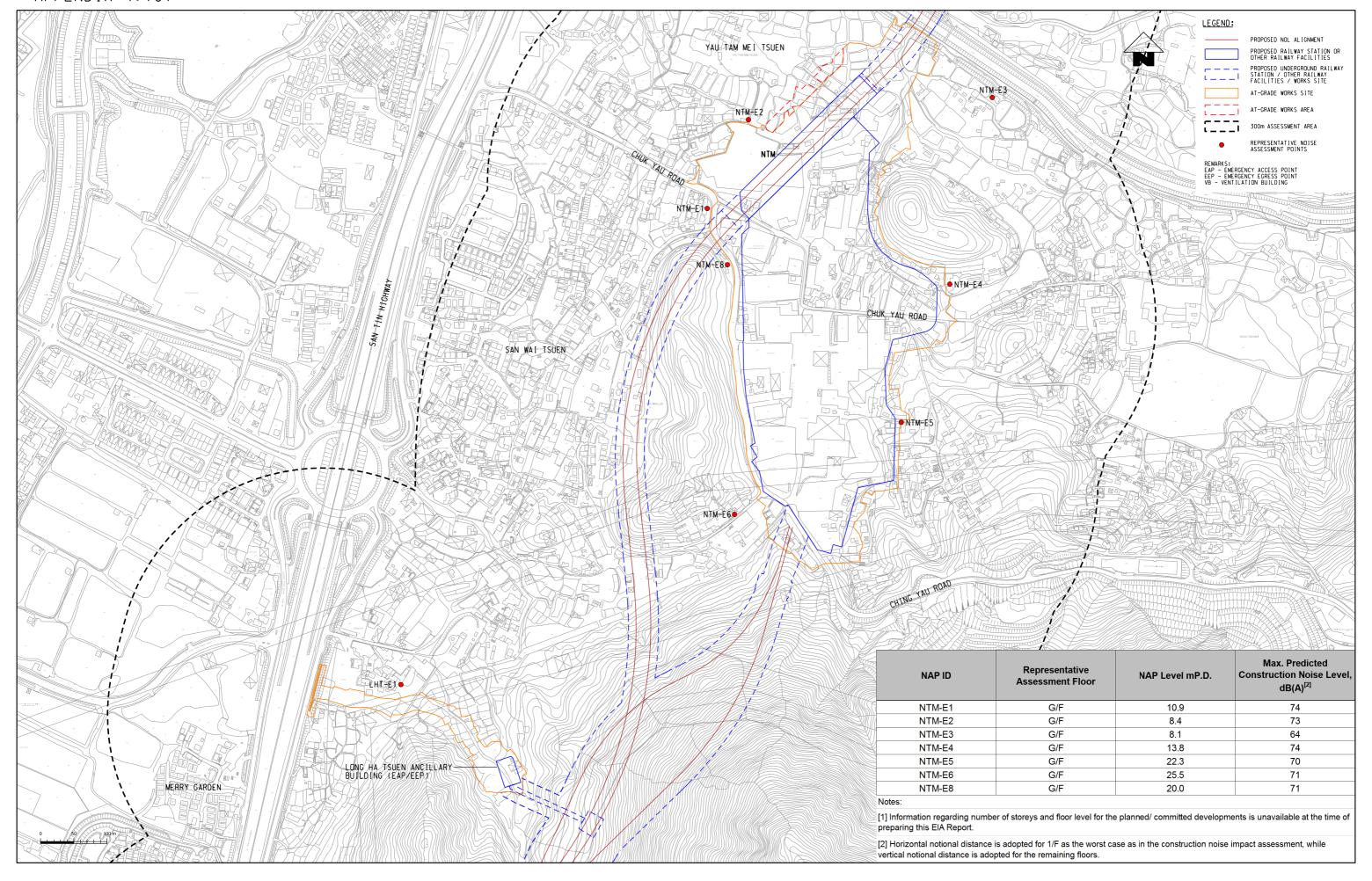
APPENDIX 4.10c



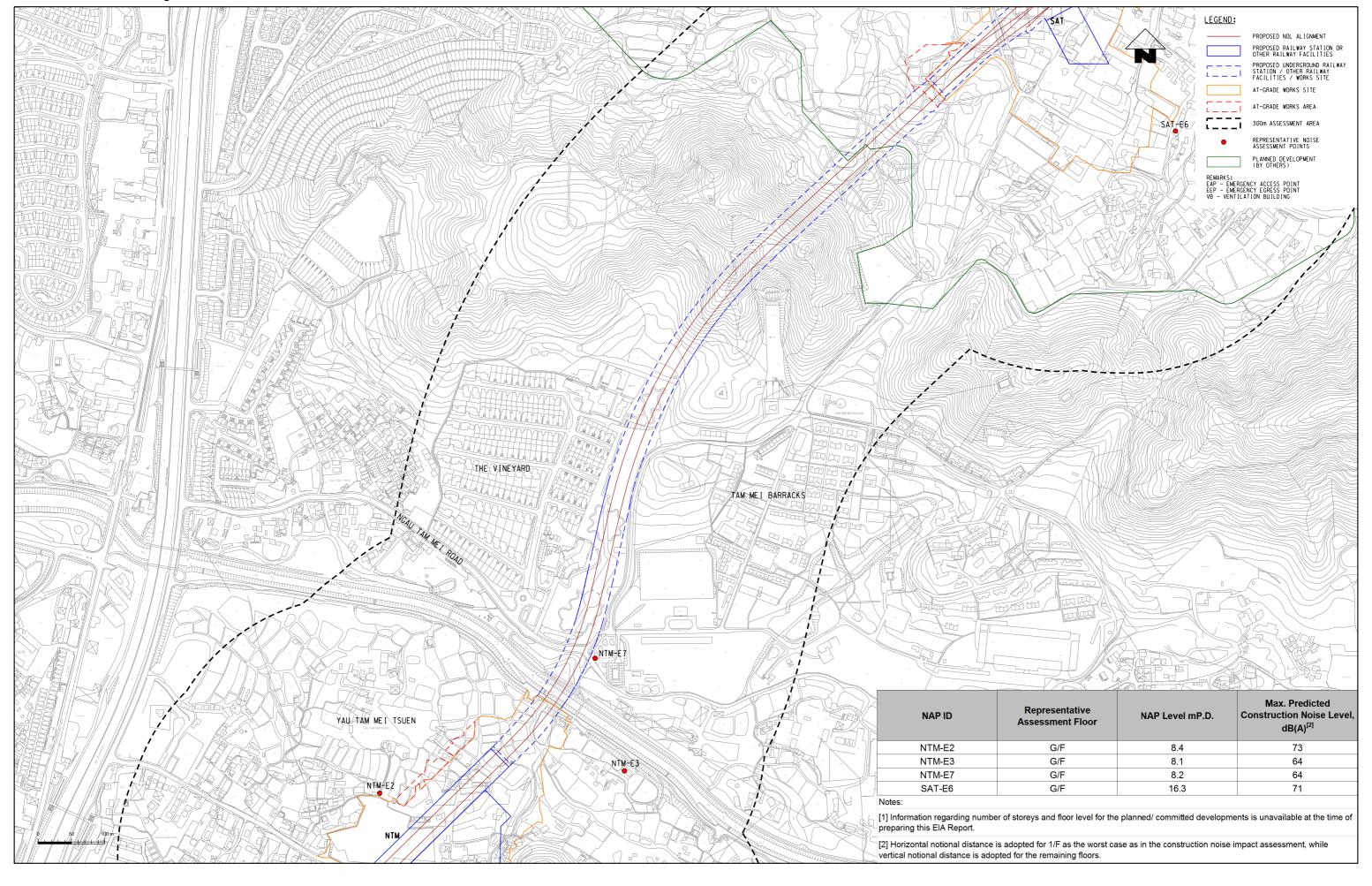


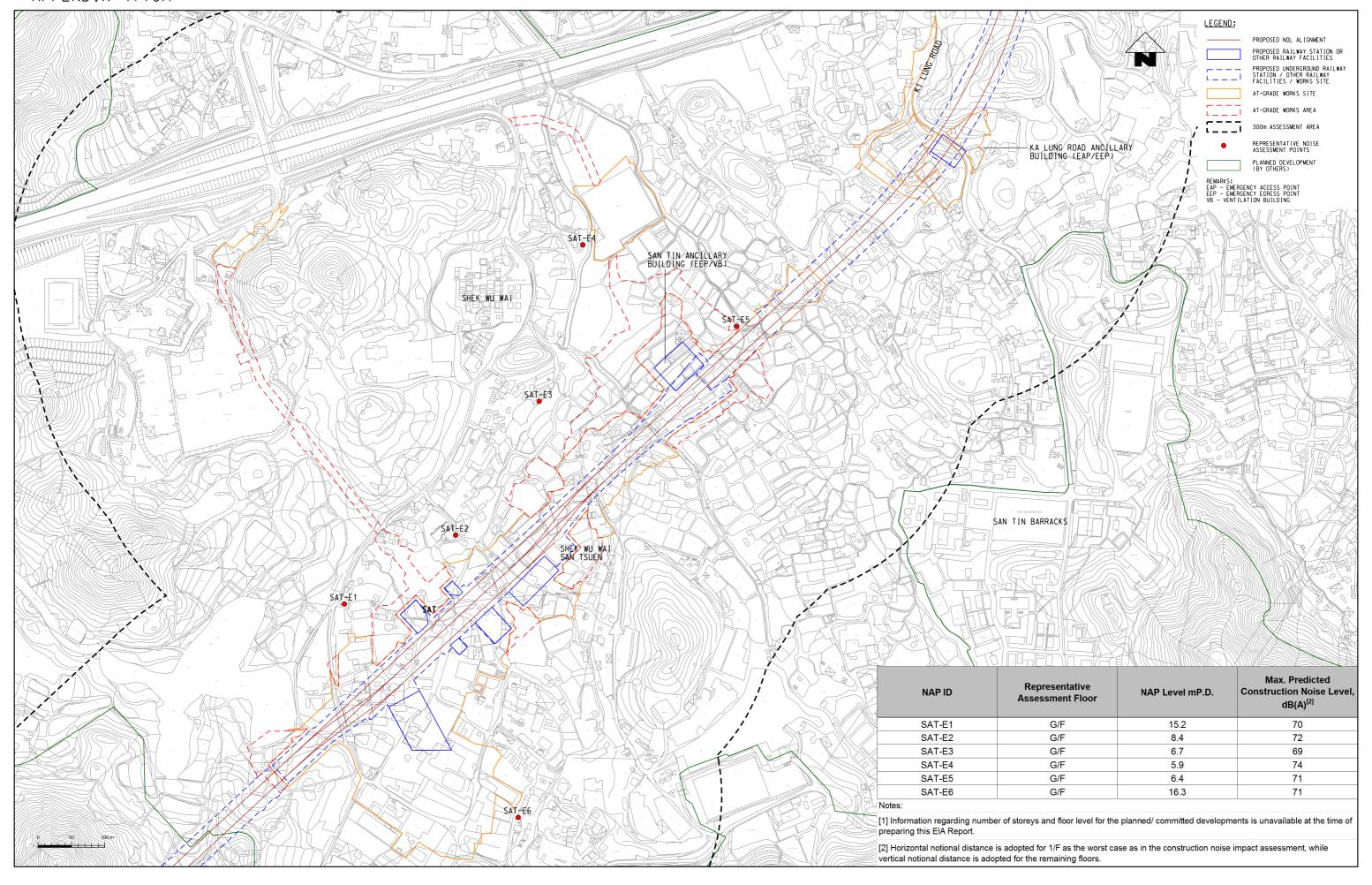
APPENDIX 4.10e



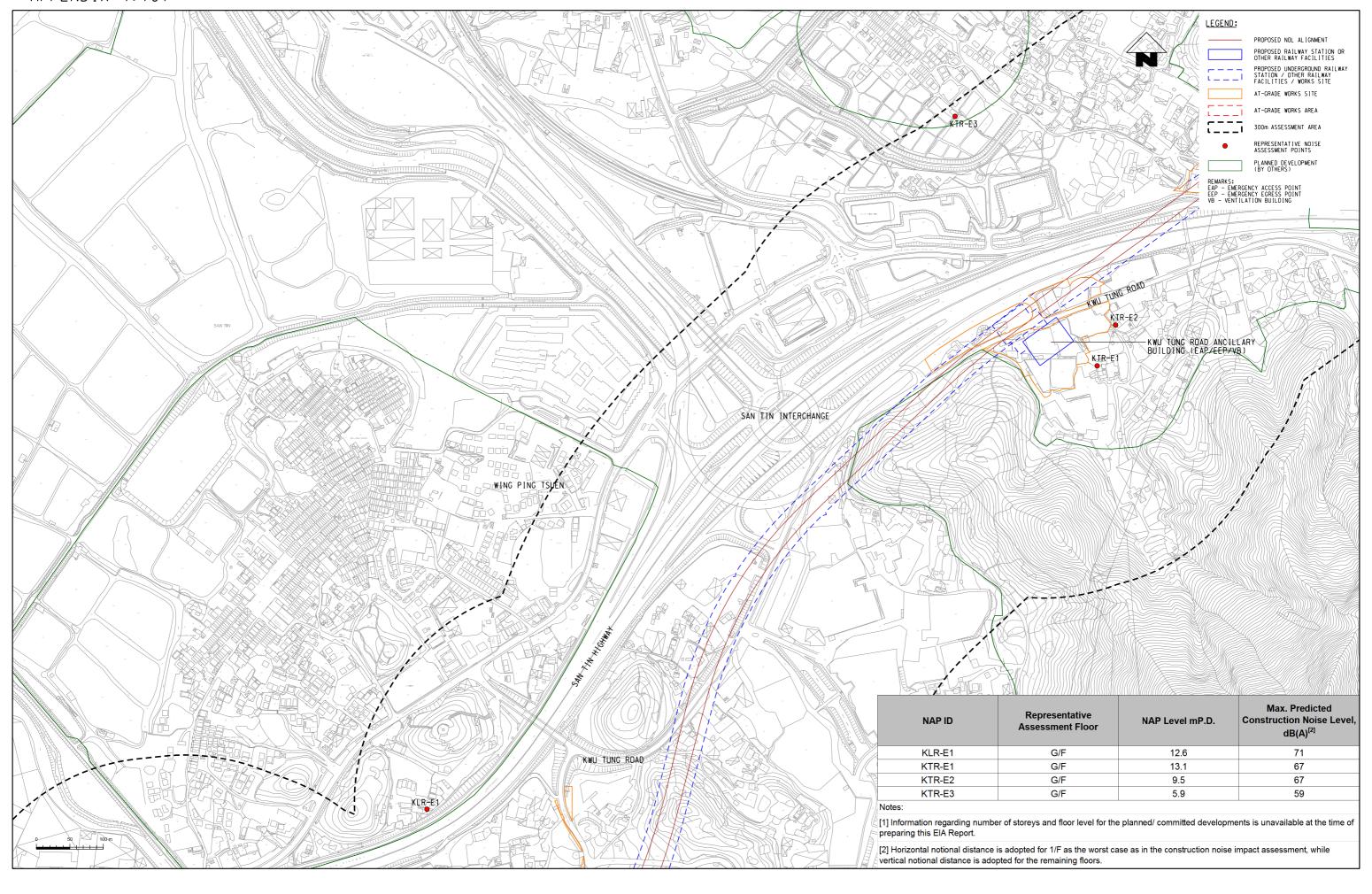


APPENDIX 4.10g





APPENDIX 4.10i



APPENDIX 4.10j

