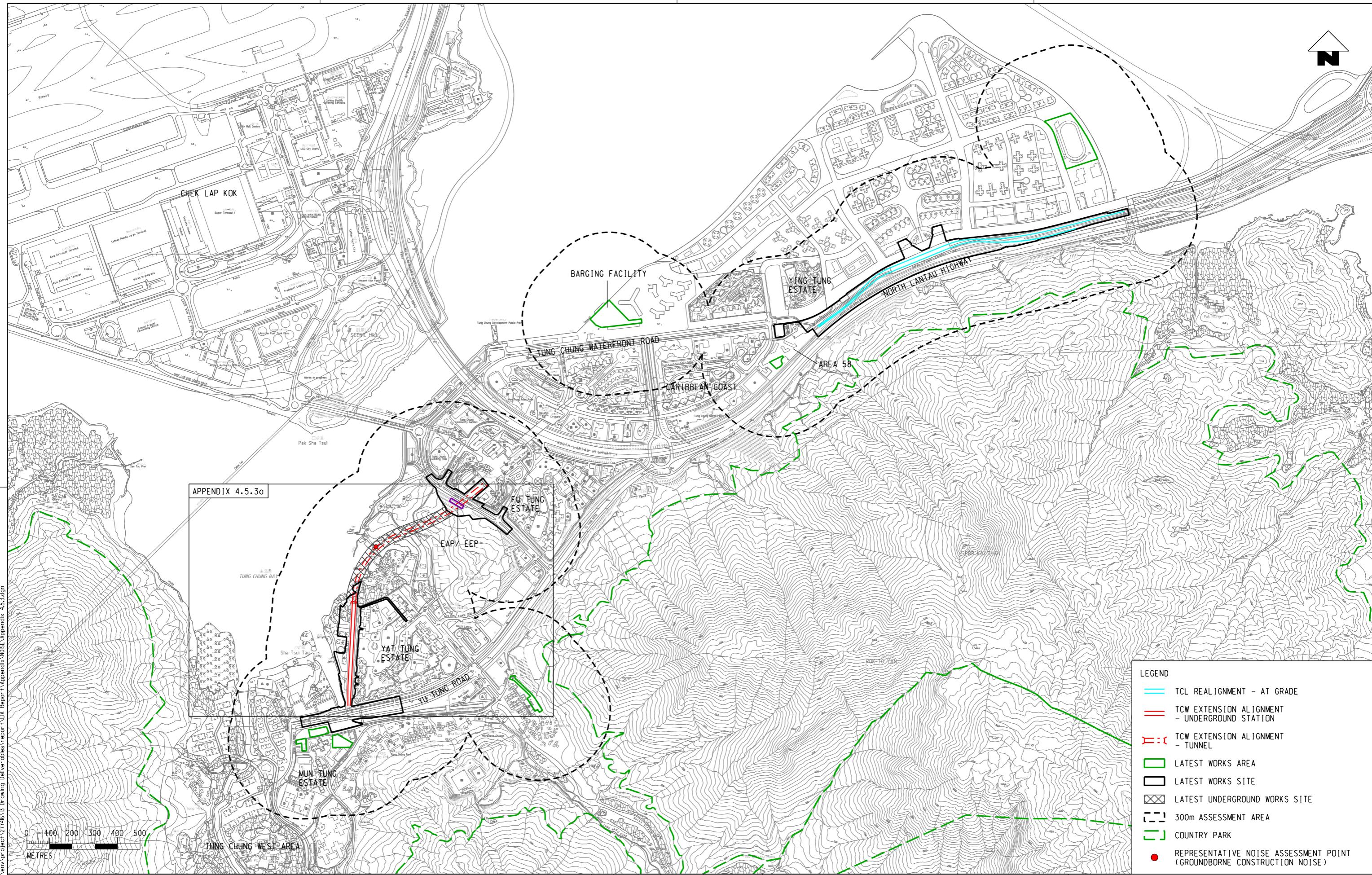


Title: Groundborne Construction Noise and Vibration Assessment Results

NSR:	Ma Wan Chung
No. of Floor	0
Type of Building	1
Horizontal Distance, m	Up track 10 Down Track 0
Vertical Distance to tunnel top, m	Up track 16 Down Track 16
Slant Distance, m	Up track 19 Down Track 16

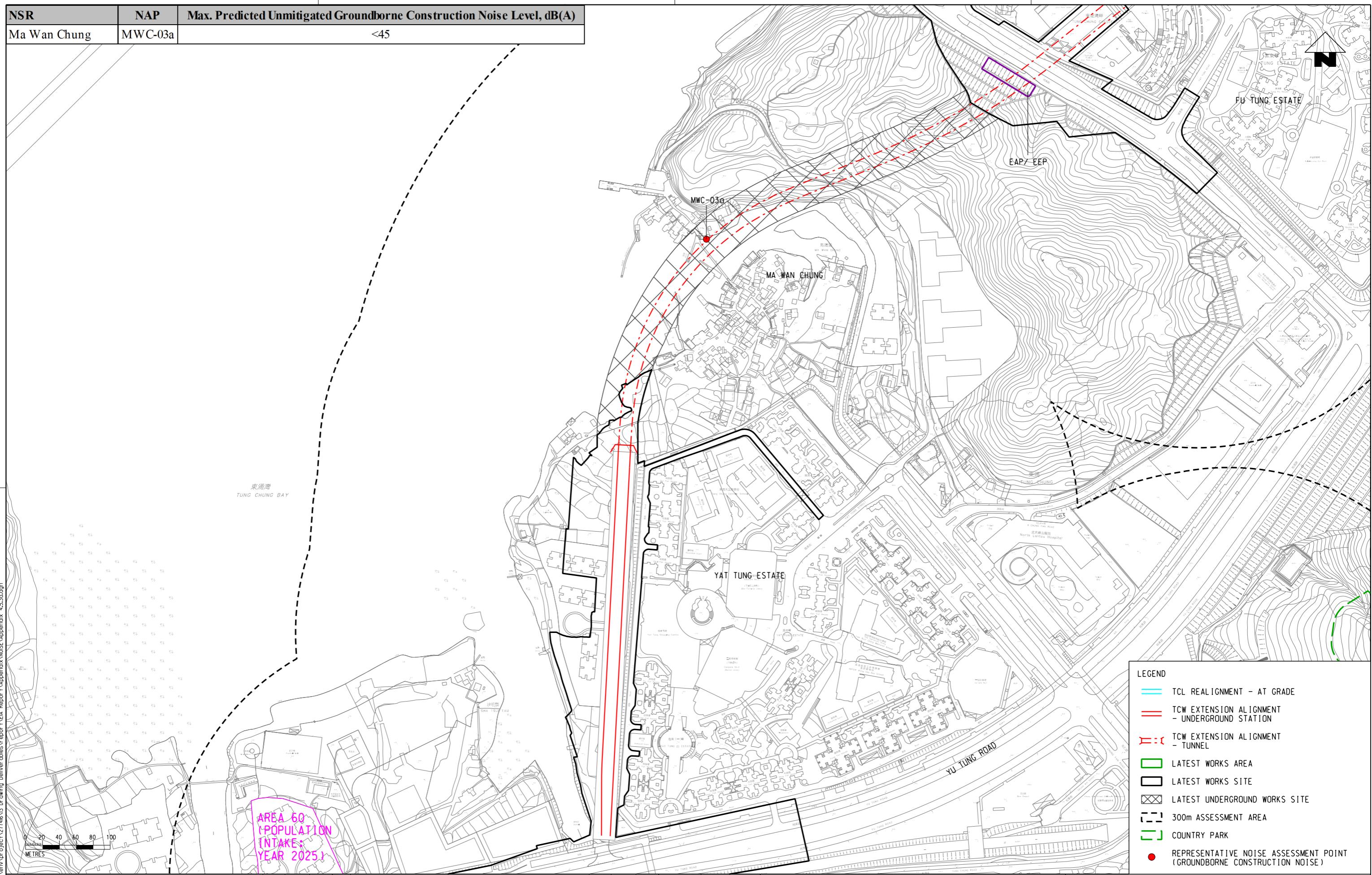
Item		Octave Band Frequency cym Hz																							
		3.15	4	5	6.3	8	10	12.5	16	20	25	32	40	50	63	80	100	125	160	200	250	315	400	500	
1	EFL, dB	68	74	76	84	87	92	97	101	99	99	101	102	97	94	94	95	93	92	90	93	93	91	93	
2	PSR at the NSR	1	-17.7	-19.4	-21.7	-25.3	-19.7	-24.0	-33.6	-39.5	-38.2	-24.4	-13.8	-16.9	-15.4	-13.8	-15.9	-17.1	-29.8	-21.9	-31.6	-26.3	-37.4	-41.8	-48.8
3	Building Coupling Loss, dB(A)	1	0.0	0.0	0.0	0.0	-2.0	-5.0	-5.5	-6.5	-7.5	-8.0	-8.5	-8.5	-8.5	-8.5	-8.0	-7.5	-7.5	-7.0	-6.0	-5.0	-5.0	-5.0	-5.0
4	Floor to Floor Attenuation, dB(A)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	Conversion from Vibration to Noise, dB(A)		-27	-27	-27	-27	-27	-27	-27	-27	-27	-27	-27	-27	-27	-27	-27	-27	-27	-27	-27	-27	-27	-27	-27
6	Predicted Noise Level at NSR, dB		23	27	27	32	38	36	31	28	26	40	52	50	46	44	43	43	28	36	25	35	23	17	12
7	Vibration Velocity Level, mm/s		0.0024	0.0047	0.0063	0.0158	0.0168	0.0211	0.0376	0.0501	0.0376	0.0355	0.0422	0.0473	0.0266	0.0178	0.02	0.0237	0.0178	0.0178	0.0158	0.0251	0.0237	0.02	0.0237
8	A-weighting Correction, dB(A)		-108.9	-100.7	-93.1	-85.4	-77.8	-70.4	-63.4	-56.7	-50.5	-45	-39	-35	-30	-26	-23	-19	-16	-13	-11	-9	-7	-5	-3
9	Predicted Noise Level at NSR in A-weighted, dB(A)		-86	-74	-66	-54	-40	-35	-33	-29	-24	-5	12	15	16	18	21	24	12	23	14	26	16	12	9
Overall A-weighted Noise Level, dB(A)		31																							
Criteria (Daytime), dB(A)		65																							
Exceedance		N																							



REV	DESCRIPTION	BY	DATE	APPROVED	REV	A	FIRST ISSUE	DESCRIPTION	BY	DATE	APPROVED	REV	GL	GL	EL	FC	DATE	17/01/2022	MTR	C1202 - EIA for Tung Chung Line Extension	ARUP Ove Arup & Partners Hong Kong Limited	SCALE	DRAWING NO.	APPENDIX 4.5.3	REV.		
																				DO NOT SCALE DRAWINGS. ALL DIMENSIONS SHALL BE REFERRED ON SITE. © MTR CORPORATION LIMITED 2008. COPYRIGHT IN RESPECT OF THIS DRAWING / DOCUMENT IS OWNED BY THE MTR CORPORATION LIMITED OF HONG KONG. COPIES OR PARTS THEREOF MAY NOT BE MADE OR OTHERWISE USED OR MAINTAINED WITHOUT THE PRIOR WRITTEN CONSENT OF THE MTR CORPORATION LIMITED.		CADD REF.	Appendix 4.5.3.dgn	AS SHOWN			A

NSR	NAP	Max. Predicted Unmitigated Groundborne Construction Noise Level, dB(A)
Ma Wan Chung	MWC-03a	<45

<45



LEGEND

-  TCL REALIGNMENT - AT GRADE
-  TCW EXTENSION ALIGNMENT
- UNDERGROUND STATION
-  TCW EXTENSION ALIGNMENT
- TUNNEL
-  LATEST WORKS AREA
-  LATEST WORKS SITE
-  LATEST UNDERGROUND WORKS SITE
-  300m ASSESSMENT AREA
-  COUNTRY PARK
-  REPRESENTATIVE NOISE ASSESSMENT POINT
(GROUNDBORNE CONSTRUCTION NOISE)

												DRAWN	GL	TITLE MTR C1202 - EIA for Tung Chung Line Extension ORIGINATOR ARUP Ove Arup & Partners Hong Kong Limited					
												DESIGNED	GL						
												CHECKED	EL						
												APPROVED	FC						
												DATE	17/01/2022						
DO NOT SCALE DRAWINGS. ALL DIMENSIONS SHALL BE VERIFIED ON SITE. © MTR CORPORATION LIMITED 2008 COPYRIGHT IN THIS DRAWING IS OWNED BY THE MTR CORPORATION LIMITED. REPRODUCTION OF THE DRAWING / DOCUMENT OR ANY PART BY WHATEVER MEANS IS PERMITTED WITHOUT THE PRIOR WRITTEN CONSENT OF THE MTR CORPORATION LIMITED.												SCALE	1 : 4000 (A3)	DRAWING NO.	APPENDIX 4.5.3a	REV.			
REV	DESCRIPTION			BY	DATE	APPROVED	REV	DESCRIPTION			BY	DATE	APPROVED	CADD REF.			Appendix 4.5.3a.dgn		A