

Appendix 4.6 Construction Noise Assessment during Non-Restricted Hours (Unmitigated Scenario)

NAP ID: OLD
 Assessment Floor: G/F
 Floor Height (mPD): 9.7

Activity Name	Work Zone	Activity Index	SWL, dB(A)	Hori. Distance, m	Vert. Distance, m	Start Distance, m	Distance Correction, dB(A)	Screening Correction, dB(A)	Facade Correction, dB(A)	2023												2024												2025												2026												2027												2028												2029												2030																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														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Appendix 4.6 Construction Noise Assessment during Non-Restricted Hours (Unmitigated Scenario)

NAP ID: RB
 Assessment Floor: 1/F
 Floor Height (mR2): 23.8

Activity Name	Work Zone	Activity Index	SWL, dB(A)	Hori. Distance, m	Vert. Distance, m	Start Distance, m	Distance Correction, dB(A)	Screening Correction, dB(A)	Facade Correction, dB(A)	2023	2024					2025					2026					2027					2028					2029					2030								
										T	D	N	S	F	M	A	M	J	J	A	S	O	N	D	F	M	A	M	J	J	A	S	O	N	D	F	M	A	M	J	J	A	S	O	N	D	F	M	A
NEC Contract 1501 (TVM Modification - A16 Station, TRB, Viaducts)																																																	
Civil Construction & Architectural Building Works Finishes																																																	
Community Green Site	W54.10	W54.10	123	275	4	275	-57		3																																								
A16 Station																																																	
Cooling Tower																																																	
Socketed H-pile Works	CT	CT-1	114	299	4	299	-57		3																																								
Construction of pile cap	CT	CT-2	116	299	4	299	-57		3																																								
Construction of Cooling Tower Structure	CT	CT-3	113	299	4	299	-57		3																																								
ABWF works for Degree 1	CT	CT-4	111	299	4	299	-57		3																																								
A16 Southern (G/L 10)																																																	
Temp Platform																																																	
Construction of temporary platform	A165	A165-3	113	309	4	309	-58		3																																								
Remove temporary platform	A165	A165-1	112	309	4	309	-58		3																																								
Demolition of existing swimming pool and plant room																																																	
Demolition of existing swimming pool and plant room	TMSP	A165-4	125	238	4	238	-56		3																																								
A16 Station Southern																																																	
GI Works	A165	A165-2	110	309	4	309	-58		3																																								
Piling Works	A165	A165-5	118	309	4	309	-58		3																																								
Construction of pile caps	A165	A165-6	119	309	4	309	-58		3																																								
Construction of Station Structure	A165	A165-7	116	309	4	309	-58		3																																								
Other external works	A165	A165-9	118	309	4	309	-58		3																																								
Degree 1 Completion	A165	A165-8	114	309	4	309	-58		3																																								
Viaducts between A16 & Tuen Mun River Bridge																																																	
Site Clearance and Reinstatement																																																	
Site clearance (incl tree felling works) for W5.4.14	W54.14	V2-1	115	229	4	229	-55		3																																								
Reinstatement for W5.4.14	W54.14	V2-2	114	229	4	229	-55		3																																								
Temporary Platform																																																	
Construction of temporary platform	V2	V2-3	112	289	4	289	-57		3																																								
Remove temporary platform	V2	V2-4	112	289	4	289	-57		3																																								
Foundation & Piers and Crossroad																																																	
Piling works (Land)																																																	
Piling works (Land)	V2	V2-5	114	289	4	289	-57		3																																								
Piling works (River)	V2	V2-5	114	289	4	289	-57		3																																								
Construction of land pier	V2	V2-6	116	289	4	289	-57		3																																								
Construction of river pier	V2	V2-6	116	289	4	289	-57		3																																								
Construction of Viaduct structure (excl. last span connecting to A16)	V2.2	V2-7a	114	288	4	288	-57		3																																								
Construction of Viaduct structure (last span connecting to A16)	V2.1	V2-7b	111	299	4	299	-57		3																																								
Degree 1 Completion																																																	
ABWF works for Degree 1 (excl. last span connecting to A16)	V2.2	V2-8	111	288	4	288	-57		3																																								
ABWF works for Degree 1 (last span connecting to A16)	V2.1	V2-8	111	299	4	299	-57		3																																								
Tuen Mun River Bridge																																																	
Temporary Platform																																																	
Construction of temporary platform in 2nd dry season	TRB	TRB-1a	116	290	4	290	-57		3																																								
Construction of temporary platform in 3rd dry season	TRB	TRB-1b	112	290	4	290	-57		3																																								
Remove temporary platform	TRB	TRB-2	117	290	4	290	-57		3																																								
Piers																																																	
Northern River End Pier																																																	
Piling works	TRB	TRB-3	114	290	4	290	-57		3																																								
Construction of pile caps	TRB	TRB-4	117	290	4	290	-57		3																																								
Construction of Pier Structure	TRB	TRB-5	113	290	4	290	-57		3																																								
Northern Pylon																																																	
Piling works	TRB	TRB-3	114	290	4	290	-57		3																																								
Construction of pile caps	TRB	TRB-4	117	290	4	290	-57		3																																								
Construction of Pylon Structure	TRB	TRB-5	113	290	4	290	-57		3																																								
Southern Pylon																																																	
Piling works	TRB	TRB-3	114	290	4	290	-57		3																																								
Construction of pile caps	TRB	TRB-4	117	290	4	290	-57		3																																								
Construction of Pylon Structure	TRB	TRB-5	113	290	4	290	-57		3																																								
Southern Land End Pier																																																	
Piling works	TRB	TRB-3	114	290	4	290	-57		3																																								
Construction of pile caps	TRB	TRB-4																																															

Appendix 4.6 Construction Noise Assessment during Non-Restricted Hours (Unmitigated Scenario)

NAP ID: NH1
 Assessment Floor: 1/F
 Floor Height (m@): e.4

Activity Name	Work Zone	Activity Index	SWL, dB(A)	Hori. Distance, m	Vert. Distance, m	Start Distance, m	Distance Correction, dB(A)	Screening Correction, dB(A)	Facade Correction, 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Appendix 4.6 Construction Noise Assessment during Non-Restricted Hours (Unmitigated Scenario)

NAP ID: SHDC1
 Assessment Floor: G/F
 Floor Height (m): 7.7

Activity Name	Work Zone	Activity Index	SWL, dB(A)	Hori. Distance, m	Vert. Distance, m	Start Distance, m	Distance Correction, dB(A)	Screening Correction, dB(A)	Facade Correction, 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Appendix 4.6 Construction Noise Assessment during Non-Restricted Hours (Unmitigated Scenario)

NAP ID: MB1

Assessment Floor: 1/F

Floor Height (mPD): 17

Construction Access Levels (mPD) 5

Horizontal distance from the Centre of Haul Road (m) 6

Calculation of construction noise for mobile plant on haul roads (BS5228 Equation F.6):

$$Leq = L_{WA} - 33 + 10\log Q - 10\log V - 10\log d + A + \text{Façade Correction}$$

Dump truck, 5.5 tonne < gross vehicle weight \leq 38 tonne

L_{WA}	105	dB(A)
Q	4	veh/hr
V	20	km/h
d	13.4	m
A	0	dB(A)
Façade	3	dB(A)
Predicted Noise Level	57	dB(A)

Demolition of Pet Garden and Hoi Wong Road Garden

Concrete Lorry Mixer

L_{WA}	109	dB(A)
Q	2	veh/hr
V	20	km/h
d	13.4	m
A	0	dB(A)
Façade	3	dB(A)
Predicted Noise Level	58	dB(A)

Lorry, gross vehicle weight > 38 tonne

L_{WA}	112	dB(A)
Q	2	veh/hr
V	20	km/h
d	13.4	m
A	0	dB(A)
Façade	3	dB(A)
Predicted Noise Level	61	dB(A)

Total Construction Noise Level due to Mobile Plant on Construction Access, dB(A)

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64 dB(A)