

Appendix 4.4 - Details of Construction Noise Assessment (Unmitigated Scenario)  
 Airport Tung Chung Link Project Environmental Impact Assessment

Calculation of Construction Noise Level (Unmitigated Scenario) (Construction Works Area A)  
 NAP: N01a - Seaview Crescent Block 1

Activity ID	Description of Activity	PME		No. of PME	SWL dB(A)/unit	% on time	Type of Noise Screening	Screening Correction dB(A)	Horizontal Distance, m	Distance Correction, dB(A)	Façade Correction dB(A)	CNL at NAP dB(A) from each PME	CNL at NAP dB(A)	
		Group	Description											TM or other ref.
A1	Site Establishment	A1.A	Excavator/loader, wheeled/tracked	CNP 081	1	112	100%	N/A	0	317	-58	3	57	69
			Crane, mobile/barge mounted (diesel)	CNP 048	1	112	100%	N/A	0	317	-58	3	57	
			Generator, standard	CNP 101	1	108	100%	N/A	0	317	-58	3	53	
			Breaker, excavator mounted (hydraulic)	CNP 028	1	122	100%	N/A	0	317	-58	3	67	
			Piling, vibrating hammer <sup>[1]</sup>	EPD	1	115	100%	N/A	0	317	-58	3	60	
			Dump truck, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[1]</sup>	EPD	1	105	70%	N/A	0	317	-58	3	48	
			Concrete pump, stationary/lorry mounted	CNP 047	1	109	100%	N/A	0	317	-58	3	54	
			Concrete lorry mixer	CNP 044	1	109	100%	N/A	0	317	-58	3	54	
			Poker, vibratory, hand-held	CNP 170	1	113	100%	N/A	0	317	-58	3	58	
			Asphalt paver	CNP 004	1	109	100%	N/A	0	317	-58	3	54	
			Roller, vibratory	CNP 186	1	108	100%	N/A	0	317	-58	3	53	
			Water pump (electric)	CNP 281	1	88	100%	N/A	0	317	-58	3	33	
<b>CNL at NAP dB(A)</b>												<b>69</b>		

Notes:

[1]: The SWL is referenced to EPD website: [https://www.epd.gov.hk/epd/sites/default/files/epd/english/application\\_for\\_licences/guidance/files/OtherSWLe.pdf](https://www.epd.gov.hk/epd/sites/default/files/epd/english/application_for_licences/guidance/files/OtherSWLe.pdf)

[2]: The boundary of the construction works areas are shown in Figure 4.3.

Appendix 4.4 - Details of Construction Noise Assessment (Unmitigated Scenario)  
 Airport Tung Chung Link Project Environmental Impact Assessment

Calculation of Construction Noise Level (Unmitigated Scenario) (Construction Works Area B)  
 NAP: N01a - Seaview Crescent Block 1

Activity ID	Description of Activity	PME		No. of PME	SWL dB(A)/unit	% on time	Type of Noise Screening	Screening Correction dB(A)	Horizontal Distance, m	Distance Correction, dB(A)	Façade Correction dB(A)	CNL at NAP dB(A) from each PME	CNL at NAP dB(A)	
		Group <sup>[1]</sup>	Description											TM or other ref.
B1	Site Establishment	B1.A	Excavator/loader, wheeled/tracked	CNP 081	2	112	100%	N/A	0	234	-55	3	63	72
			Crane, mobile/barge mounted (diesel)	CNP 048	1	112	100%	N/A	0	234	-55	3	60	
			Generator, standard	CNP 101	1	108	100%	N/A	0	234	-55	3	56	
			Breaker, excavator mounted (hydraulic)	CNP 028	1	122	100%	N/A	0	234	-55	3	70	
			Piling, vibrating hammer <sup>[2]</sup>	EPD	1	115	100%	N/A	0	234	-55	3	63	
			Dump truck, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	70%	N/A	0	234	-55	3	51	
			Water pump (electric)	CNP 281	1	88	100%	N/A	0	234	-55	3	36	
<b>CNL at NAP dB(A)</b>												<b>72</b>		
B2	Substructure	B2.A	Piling, large diameter bored, grab and chisel <sup>[3]</sup>	CNP 164	1	115	70%	N/A	0	218	-55	3	62	67
			Air Compressor, air flow > 10m <sup>3</sup> /min and < 30m <sup>3</sup> /min	CNP 002	1	102	70%	N/A	0	234	-55	3	48	
			Crane, mobile/barge mounted (diesel)	CNP 048	1	112	70%	N/A	0	234	-55	3	58	
			Generator, standard	CNP 101	1	108	100%	N/A	0	234	-55	3	56	
			Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	70%	N/A	0	234	-55	3	51	
			Excavator/loader, wheeled/tracked	CNP 081	2	112	100%	N/A	0	234	-55	3	63	
			Water pump (electric)	CNP 281	2	88	100%	N/A	0	234	-55	3	39	
		B2.B	Piling, large diameter bored, oscillator <sup>[3]</sup>	CNP 165	1	115	70%	N/A	0	218	-55	3	62	67
			Air Compressor, air flow > 10m <sup>3</sup> /min and < 30m <sup>3</sup> /min	CNP 002	1	102	70%	N/A	0	234	-55	3	48	
			Crane, mobile/barge mounted (diesel)	CNP 048	1	112	70%	N/A	0	234	-55	3	58	
			Generator, standard	CNP 101	1	108	100%	N/A	0	234	-55	3	56	
			Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	70%	N/A	0	234	-55	3	51	
			Excavator/loader, wheeled/tracked	CNP 081	2	112	100%	N/A	0	234	-55	3	63	
			Water pump (electric)	CNP 281	2	88	100%	N/A	0	234	-55	3	39	
		B2.C	Piling, large diameter bored, reverse circulation drill <sup>[3]</sup>	CNP 166	1	100	70%	N/A	0	218	-55	3	47	65
			Air Compressor, air flow > 10m <sup>3</sup> /min and < 30m <sup>3</sup> /min	CNP 002	1	102	70%	N/A	0	234	-55	3	48	
			Crane, mobile/barge mounted (diesel)	CNP 048	1	112	70%	N/A	0	234	-55	3	58	
			Generator, standard	CNP 101	1	108	100%	N/A	0	234	-55	3	56	
			Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	70%	N/A	0	234	-55	3	51	
			Excavator/loader, wheeled/tracked	CNP 081	2	112	100%	N/A	0	234	-55	3	63	
			Water pump (electric)	CNP 281	2	88	100%	N/A	0	234	-55	3	39	
		B2.D	Crane, mobile/barge mounted (diesel)	CNP 048	1	112	100%	N/A	0	234	-55	3	60	68
			Generator, standard	CNP 101	1	108	100%	N/A	0	234	-55	3	56	
			Concrete pump, stationary/lorry mounted	CNP 047	1	109	100%	N/A	0	234	-55	3	57	
			Concrete lorry mixer	CNP 044	2	109	100%	N/A	0	234	-55	3	60	
			Poker, vibratory, hand-held	CNP 170	2	113	100%	N/A	0	234	-55	3	64	
			Bar bender and cutter (electric)	CNP 021	1	90	100%	N/A	0	234	-55	3	38	
			Excavator/loader, wheeled/tracked	CNP 081	2	112	100%	N/A	0	234	-55	3	63	
Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD		1	105	100%	N/A	0	234	-55	3	53			
Water pump (electric)	CNP 281		2	88	100%	N/A	0	234	-55	3	39			
<b>CNL at NAP dB(A) <sup>[5]</sup></b>												<b>68</b>		
B3	Superstructure	B3.A	Crane, mobile/barge mounted (diesel)	CNP 048	1	112	100%	N/A	0	234	-55	3	60	69
			Generator, standard	CNP 101	2	108	100%	N/A	0	234	-55	3	59	
			Concrete pump, stationary/lorry mounted	CNP 047	1	109	100%	N/A	0	234	-55	3	57	
			Concrete lorry mixer	CNP 044	1	109	100%	N/A	0	234	-55	3	57	
			Poker, vibratory, hand-held	CNP 170	2	113	100%	N/A	0	234	-55	3	64	
			Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	100%	N/A	0	234	-55	3	53	
			Excavator/loader, wheeled/tracked	CNP 081	2	112	100%	N/A	0	234	-55	3	63	
			Bar bender and cutter (electric)	CNP 021	1	90	100%	N/A	0	234	-55	3	38	
			Asphalt paver	CNP 004	1	109	100%	N/A	0	234	-55	3	57	
			Roller, vibratory	CNP 186	1	108	100%	N/A	0	234	-55	3	56	
<b>CNL at NAP dB(A)</b>												<b>69</b>		
B4	Building Service and Finishes	B4.A	Generator, standard	CNP 101	1	108	100%	N/A	0	234	-55	3	56	60
			Cherry picker <sup>[4]</sup>	Ref: AEIAR-173/2013	2	107	100%	N/A	0	234	-55	3	58	
<b>CNL at NAP dB(A)</b>												<b>60</b>		

Notes:  
 [1]: PMEs in each works group are assigned to sub-groups by considering the work process, such that each sub-group would not take place with others at the same time.  
 [2]: The SWL is referenced to EPD website: [https://www.epd.gov.hk/epd/sites/default/files/epd/english/application\\_for\\_licences/guidance/files/OtherSWLe.pdf](https://www.epd.gov.hk/epd/sites/default/files/epd/english/application_for_licences/guidance/files/OtherSWLe.pdf)  
 [3]: The PME will be used at the exact fixed locations as shown in Figure 4.3, the nearest fixed location have been used for this assessment.  
 [4]: The SWL of the PME is referenced to the EIA report of the Tseung Kwan O – Lam Tin Tunnel and Associated Works (Register No. AEIAR-173/2013).  
 [5]: The highest CNL at NAP among the groups is adopted.  
 [6]: The boundary of the construction works areas are shown in Figure 4.3.

Appendix 4.4 - Details of Construction Noise Assessment (Unmitigated Scenario)  
 Airport Tung Chung Link Project Environmental Impact Assessment

Calculation of Construction Noise Level (Unmitigated Scenario) (Construction Works Area C)

NAP: N01a - Seaview Crescent Block 1

Activity ID	Description of Activity	PME			No. of PME	SWL dB(A)/unit	% on time	Type of Noise Screening	Screening Correction dB(A)	Horizontal Distance, m	Distance Correction, dB(A)	Façade Correction dB(A)	CNL at NAP dB(A) from each PME	CNL at NAP dB(A)
		Group <sup>[1]</sup>	Description	TM or other ref.										
C1	Site Establishment	C1.A	Excavator/loader, wheeled/tracked	CNP 081	1	112	100%	N/A	0	194	-54	3	61	73
			Dump truck, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	70%	N/A	0	194	-54	3	53	
			Piling, vibrating hammer <sup>[2]</sup>	EPD	1	115	100%	N/A	0	194	-54	3	64	
			Breaker, excavator mounted (hydraulic)	CNP 028	1	122	100%	N/A	0	194	-54	3	71	
			Generator, standard	CNP 101	1	108	100%	N/A	0	194	-54	3	57	
			<b>CNL at NAP dB(A)</b>											
C2	Substructure	C2.A	Piling, large diameter bored, grab and chisel <sup>[3]</sup>	CNP 164	1	115	70%	N/A	0	195	-54	3	63	67
			Air Compressor, air flow > 10m <sup>3</sup> /min and < 30m <sup>3</sup> /min	CNP 002	1	102	70%	N/A	0	194	-54	3	50	
			Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	70%	N/A	0	194	-54	3	53	
			Excavator/loader, wheeled/tracked	CNP 081	1	112	100%	N/A	0	194	-54	3	61	
			Crane, mobile/barge mounted (diesel)	CNP 048	1	112	70%	N/A	0	194	-54	3	60	
			Generator, standard	CNP 101	1	108	100%	N/A	0	194	-54	3	57	
			Water pump (electric)	CNP 281	2	88	100%	N/A	0	194	-54	3	40	
		C2.B	Piling, large diameter bored, oscillator <sup>[3]</sup>	CNP 165	1	115	70%	N/A	0	195	-54	3	63	67
			Air Compressor, air flow > 10m <sup>3</sup> /min and < 30m <sup>3</sup> /min	CNP 002	1	102	70%	N/A	0	194	-54	3	50	
			Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	70%	N/A	0	194	-54	3	53	
			Excavator/loader, wheeled/tracked	CNP 081	1	112	100%	N/A	0	194	-54	3	61	
			Crane, mobile/barge mounted (diesel)	CNP 048	1	112	70%	N/A	0	194	-54	3	60	
			Generator, standard	CNP 101	1	108	100%	N/A	0	194	-54	3	57	
			Water pump (electric)	CNP 281	2	88	100%	N/A	0	194	-54	3	40	
		C2.C	Piling, large diameter bored, reverse circulation drill <sup>[3]</sup>	CNP 166	1	100	70%	N/A	0	195	-54	3	48	65
			Air Compressor, air flow > 10m <sup>3</sup> /min and < 30m <sup>3</sup> /min	CNP 002	1	102	70%	N/A	0	194	-54	3	50	
			Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	70%	N/A	0	194	-54	3	53	
			Excavator/loader, wheeled/tracked	CNP 081	1	112	100%	N/A	0	194	-54	3	61	
			Crane, mobile/barge mounted (diesel)	CNP 048	1	112	70%	N/A	0	194	-54	3	60	
			Generator, standard	CNP 101	1	108	100%	N/A	0	194	-54	3	57	
			Water pump (electric)	CNP 281	2	88	100%	N/A	0	194	-54	3	40	
		C2.D	Crane, mobile/barge mounted (diesel)	CNP 048	1	112	100%	N/A	0	194	-54	3	61	70
			Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	100%	N/A	0	194	-54	3	54	
			Excavator/loader, wheeled/tracked	CNP 081	2	112	100%	N/A	0	194	-54	3	64	
			Generator, standard	CNP 101	1	108	100%	N/A	0	194	-54	3	57	
			Water pump (electric)	CNP 281	2	88	100%	N/A	0	194	-54	3	40	
			Concrete pump, stationary/lorry mounted	CNP 047	1	109	100%	N/A	0	194	-54	3	58	
			Bar bender and cutter (electric)	CNP 021	1	90	100%	N/A	0	194	-54	3	39	
			Poker, vibratory, hand-held	CNP 170	2	113	100%	N/A	0	194	-54	3	65	
		Concrete lorry mixer	CNP 044	2	109	100%	N/A	0	194	-54	3	61		
<b>CNL at NAP dB(A)<sup>[4]</sup></b>												<b>70</b>		
C3	Superstructure	C3.A	Crane, mobile/barge mounted (diesel)	CNP 048	1	112	100%	N/A	0	194	-54	3	61	62
			Winch (petrol)	CNP 263	1	102	100%	N/A	0	194	-54	3	51	
		C3.B	Crane, mobile/barge mounted (diesel)	CNP 048	1	112	100%	N/A	0	194	-54	3	61	67
			Winch (electric)	CNP 262	1	95	100%	N/A	0	194	-54	3	44	
			Generator, standard	CNP 101	2	108	100%	N/A	0	194	-54	3	60	
			Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	100%	N/A	0	194	-54	3	54	
			Excavator/loader, wheeled/tracked	CNP 081	2	112	100%	N/A	0	194	-54	3	64	
		C3.C	Concrete pump, stationary/lorry mounted	CNP 047	1	109	100%	N/A	0	194	-54	3	58	68
			Concrete lorry mixer	CNP 044	1	109	100%	N/A	0	194	-54	3	58	
			Poker, vibratory, hand-held	CNP 170	2	113	100%	N/A	0	194	-54	3	65	
			Generator, standard	CNP 101	2	108	100%	N/A	0	194	-54	3	60	
		C3.D	Generator, standard	CNP 101	2	108	100%	N/A	0	194	-54	3	60	60
			Bar bender and cutter (electric)	CNP 021	1	90	100%	N/A	0	194	-54	3	39	
		C3.E	Asphalt paver	CNP 004	1	109	100%	N/A	0	194	-54	3	58	61
			Roller, vibratory	CNP 186	1	108	100%	N/A	0	194	-54	3	57	
<b>CNL at NAP dB(A)<sup>[4]</sup></b>												<b>68</b>		

Notes:  
 [1]: PMEs in each works group are assigned to sub-groups by considering the work process, such that each sub-group would not take place with others at the same time.  
 [2]: The SWL is referenced to EPD website: [https://www.epd.gov.hk/epd/sites/default/files/epd/english/application\\_for\\_licences/guidance/files/OtherSWLe.pdf](https://www.epd.gov.hk/epd/sites/default/files/epd/english/application_for_licences/guidance/files/OtherSWLe.pdf)  
 [3]: The PME will be used at the exact fixed locations as shown in Figure 4.3, the nearest fixed location have been used for this assessment.  
 [4]: The highest CNL at NAP among the groups is adopted.  
 [5]: The boundary of the construction works areas are shown in Figure 4.3.

Appendix 4.4 - Details of Construction Noise Assessment (Unmitigated Scenario)  
 Airport Tung Chung Link Project Environmental Impact Assessment

Calculation of Construction Noise Level (Unmitigated Scenario) (Construction Works Area D)

NAP: N01a - Seaview Crescent Block 1

Activity ID	Description of Activity	PME			No. of PME	SWL dB(A)/unit	% on time	Type of Noise Screening	Screening Correction dB(A)	Horizontal Distance, m	Distance Correction, dB(A)	Façade Correction dB(A)	CNL at NAP dB(A) from each PME	CNL at NAP dB(A)
		Group <sup>[1]</sup>	Description	TM or other ref.										
D1	Site Establishment	D1.A	Excavator/loader, wheeled/tracked	CNP 081	1	112	100%	N/A	0	202	-54	3	61	72
			Dump truck, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	70%	N/A	0	202	-54	3	52	
			Piling, vibrating hammer <sup>[2]</sup>	EPD	1	115	100%	N/A	0	202	-54	3	64	
			Breaker, excavator mounted (hydraulic)	CNP 028	1	122	100%	N/A	0	202	-54	3	71	
			Generator, standard	CNP 101	1	108	100%	N/A	0	202	-54	3	57	
			<b>CNL at NAP dB(A)</b>											
D2	Substructure	D2.A	Piling, large diameter bored, grab and chisel <sup>[3]</sup>	CNP 164	1	115	70%	N/A	0	201	-54	3	62	67
			Air Compressor, air flow > 10m <sup>3</sup> /min and < 30m <sup>3</sup> /min	CNP 002	1	102	70%	N/A	0	202	-54	3	49	
			Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	70%	N/A	0	202	-54	3	52	
			Excavator/loader, wheeled/tracked	CNP 081	1	112	100%	N/A	0	202	-54	3	61	
			Crane, mobile/barge mounted (diesel)	CNP 048	1	112	70%	N/A	0	202	-54	3	59	
			Generator, standard	CNP 101	1	108	100%	N/A	0	202	-54	3	57	
			Water pump (electric)	CNP 281	2	88	100%	N/A	0	202	-54	3	40	
		D2.B	Piling, large diameter bored, oscillator <sup>[3]</sup>	CNP 165	1	115	70%	N/A	0	201	-54	3	62	67
			Air Compressor, air flow > 10m <sup>3</sup> /min and < 30m <sup>3</sup> /min	CNP 002	1	102	70%	N/A	0	202	-54	3	49	
			Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	70%	N/A	0	202	-54	3	52	
			Excavator/loader, wheeled/tracked	CNP 081	1	112	100%	N/A	0	202	-54	3	61	
			Crane, mobile/barge mounted (diesel)	CNP 048	1	112	70%	N/A	0	202	-54	3	59	
			Generator, standard	CNP 101	1	108	100%	N/A	0	202	-54	3	57	
			Water pump (electric)	CNP 281	2	88	100%	N/A	0	202	-54	3	40	
		D2.C	Piling, large diameter bored, reverse circulation drill <sup>[3]</sup>	CNP 166	1	100	70%	N/A	0	201	-54	3	47	65
			Air Compressor, air flow > 10m <sup>3</sup> /min and < 30m <sup>3</sup> /min	CNP 002	1	102	70%	N/A	0	202	-54	3	49	
			Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	70%	N/A	0	202	-54	3	52	
			Excavator/loader, wheeled/tracked	CNP 081	1	112	100%	N/A	0	202	-54	3	61	
			Crane, mobile/barge mounted (diesel)	CNP 048	1	112	70%	N/A	0	202	-54	3	59	
			Generator, standard	CNP 101	1	108	100%	N/A	0	202	-54	3	57	
			Water pump (electric)	CNP 281	2	88	100%	N/A	0	202	-54	3	40	
		D2.D	Crane, mobile/barge mounted (diesel)	CNP 048	1	112	100%	N/A	0	202	-54	3	61	70
			Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	100%	N/A	0	202	-54	3	54	
			Excavator/loader, wheeled/tracked	CNP 081	2	112	100%	N/A	0	202	-54	3	64	
			Generator, standard	CNP 101	1	108	100%	N/A	0	202	-54	3	57	
			Water pump (electric)	CNP 281	2	88	100%	N/A	0	202	-54	3	40	
			Concrete pump, stationary/lorry mounted	CNP 047	1	109	100%	N/A	0	202	-54	3	58	
			Bar bender and cutter (electric)	CNP 021	1	90	100%	N/A	0	202	-54	3	39	
			Poker, vibratory, hand-held	CNP 170	2	113	100%	N/A	0	202	-54	3	65	
		Concrete lorry mixer	CNP 044	2	109	100%	N/A	0	202	-54	3	61		
<b>CNL at NAP dB(A) <sup>[4]</sup></b>												<b>70</b>		
D3	Superstructure	D3.A	Crane, mobile/barge mounted (diesel)	CNP 048	1	112	100%	N/A	0	202	-54	3	61	61
			Winch (petrol)	CNP 263	1	102	100%	N/A	0	202	-54	3	51	
		D3.B	Crane, mobile/barge mounted (diesel)	CNP 048	1	112	100%	N/A	0	202	-54	3	61	67
			Winch (electric)	CNP 262	1	95	100%	N/A	0	202	-54	3	44	
			Generator, standard	CNP 101	2	108	100%	N/A	0	202	-54	3	60	
			Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	100%	N/A	0	202	-54	3	54	
			Excavator/loader, wheeled/tracked	CNP 081	2	112	100%	N/A	0	202	-54	3	64	
		D3.C	Concrete pump, stationary/lorry mounted	CNP 047	1	109	100%	N/A	0	202	-54	3	58	67
			Concrete lorry mixer	CNP 044	1	109	100%	N/A	0	202	-54	3	58	
			Poker, vibratory, hand-held	CNP 170	2	113	100%	N/A	0	202	-54	3	65	
			Generator, standard	CNP 101	2	108	100%	N/A	0	202	-54	3	60	
		D3.D	Generator, standard	CNP 101	2	108	100%	N/A	0	202	-54	3	60	60
			Bar bender and cutter (electric)	CNP 021	1	90	100%	N/A	0	202	-54	3	39	
		D3.E	Asphalt paver	CNP 004	1	109	100%	N/A	0	202	-54	3	58	60
			Roller, vibratory	CNP 186	1	108	100%	N/A	0	202	-54	3	57	
<b>CNL at NAP dB(A) <sup>[4]</sup></b>												<b>67</b>		

Notes:  
 [1]: PMEs in each works group are assigned to sub-groups by considering the work process, such that each sub-group would not take place with others at the same time.  
 [2]: The SWL is referenced to EPD website: [https://www.epd.gov.hk/epd/sites/default/files/epd/english/application\\_for\\_licences/guidance/files/OtherSWLe.pdf](https://www.epd.gov.hk/epd/sites/default/files/epd/english/application_for_licences/guidance/files/OtherSWLe.pdf)  
 [3]: The PME will be used at the exact fixed locations as shown in Figure 4.3, the nearest fixed location have been used for this assessment.  
 [4]: The highest CNL at NAP among the groups is adopted.  
 [5]: The boundary of the construction works areas are shown in Figure 4.3.

Appendix 4.4 - Details of Construction Noise Assessment (Unmitigated Scenario)  
 Airport Tung Chung Link Project Environmental Impact Assessment

Calculation of Construction Noise Level (Unmitigated Scenario) (Construction Works Area E)  
 NAP: N01a - Seaview Crescent Block 1

Activity ID	Description of Activity	PME			No. of PME	SWL dB(A)/unit	% on time	Type of Noise Screening	Screening Correction dB(A)	Horizontal Distance, m	Distance Correction, dB(A)	Façade Correction dB(A)	CNL at NAP dB(A) from each PME	CNL at NAP dB(A)
		Group <sup>[1]</sup>	Description	TM or other ref.										
E1	Site Establishment	E1.A	Excavator/loader, wheeled/tracked	CNP 081	1	112	100%	N/A	0	269	-57	3	58	70
			Generator, standard	CNP 101	1	108	100%	N/A	0	269	-57	3	54	
			Dump truck, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	70%	N/A	0	269	-57	3	50	
			Piling, vibrating hammer <sup>[2]</sup>	EPD	1	115	100%	N/A	0	269	-57	3	61	
			Breaker, excavator mounted (hydraulic)	CNP 028	1	122	100%	N/A	0	269	-57	3	68	
												<b>CNL at NAP dB(A)</b>	<b>70</b>	
E2	Substructure	E2.A	Piling, large diameter bored, reverse circulation drill <sup>[3]</sup>	CNP 166	1	100	70%	N/A	0	261	-56	3	45	68
			Piling, large diameter bored, oscillator <sup>[3]</sup>	CNP 165	1	115	70%	N/A	0	261	-56	3	60	
			Air Compressor, air flow > 10m <sup>3</sup> /min and < 30m <sup>3</sup> /min	CNP 002	1	102	100%	N/A	0	269	-57	3	48	
			Crane, mobile/barge mounted (diesel)	CNP 048	1	112	100%	N/A	0	269	-57	3	58	
			Generator, standard	CNP 101	1	108	100%	N/A	0	269	-57	3	54	
			Piling, large diameter bored, grab and chisel <sup>[3]</sup>	CNP 164	1	115	70%	N/A	0	261	-56	3	60	
			Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	100%	N/A	0	269	-57	3	51	
			Concrete pump, stationary/lorry mounted	CNP 047	1	109	100%	N/A	0	269	-57	3	55	
			Concrete lorry mixer	CNP 044	2	109	100%	N/A	0	269	-57	3	58	
			Bar bender and cutter (electric)	CNP 021	1	90	100%	N/A	0	269	-57	3	36	
			Excavator/loader, wheeled/tracked	CNP 081	1	112	100%	N/A	0	269	-57	3	58	
			Water pump (electric)	CNP 281	2	88	100%	N/A	0	269	-57	3	37	
			Poker, vibratory, hand-held	CNP 170	2	113	100%	N/A	0	269	-57	3	62	
												<b>CNL at NAP dB(A)</b>	<b>68</b>	
E3	Superstructure	E3.A	Crane, mobile/barge mounted (diesel)	CNP 048	1	112	100%	N/A	0	269	-57	3	58	68
			Winch (petrol)	CNP 263	1	102	100%	N/A	0	269	-57	3	48	
			Winch (electric)	CNP 262	1	95	100%	N/A	0	269	-57	3	41	
			Generator, standard	CNP 101	2	108	100%	N/A	0	269	-57	3	57	
			Concrete pump, stationary/lorry mounted	CNP 047	1	109	100%	N/A	0	269	-57	3	55	
			Concrete lorry mixer	CNP 044	1	109	100%	N/A	0	269	-57	3	55	
			Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	100%	N/A	0	269	-57	3	51	
			Poker, vibratory, hand-held	CNP 170	2	113	100%	N/A	0	269	-57	3	62	
			Excavator/loader, wheeled/tracked	CNP 081	2	112	100%	N/A	0	269	-57	3	61	
			Bar bender and cutter (electric)	CNP 021	1	90	100%	N/A	0	269	-57	3	36	
			Asphalt paver	CNP 004	1	109	100%	N/A	0	269	-57	3	55	
			Roller, vibratory	CNP 186	1	108	100%	N/A	0	269	-57	3	54	
E4	Landscape Softworks and Cycle Track	E4.A	Excavator/loader, wheeled/tracked	CNP 081	1	112	100%	N/A	0	269	-57	3	58	61
			Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	100%	N/A	0	269	-57	3	51	
			Generator, standard	CNP 101	1	108	100%	N/A	0	269	-57	3	54	
			Compactor, vibratory	CNP 050	1	105	100%	N/A	0	269	-57	3	51	
												<b>CNL at NAP dB(A)</b>	<b>61</b>	

Notes:  
 [1]: PMEs in each works group are assigned to sub-groups by considering the work process, such that each sub-group would not take place with others at the same time.  
 [2]: The SWL is referenced to EPD website: [https://www.epd.gov.hk/epd/sites/default/files/epd/english/application\\_for\\_licences/guidance/files/OtherSWLe.pdf](https://www.epd.gov.hk/epd/sites/default/files/epd/english/application_for_licences/guidance/files/OtherSWLe.pdf)  
 [3]: The PME will be used at the exact fixed locations as shown in Figure 4.3, the nearest fixed location have been used for this assessment.  
 [4]: The boundary of the construction works areas are shown in Figure 4.3.

Appendix 4.4 - Details of Construction Noise Assessment (Unmitigated Scenario)  
 Airport Tung Chung Link Project Environmental Impact Assessment

Calculation of Construction Noise Level (Unmitigated Scenario) (Construction Works Area F)  
 NAP: N01a - Seaview Crescent Block 1

Activity ID	Description of Activity	PME		No. of PME	SWL dB(A)/unit	% on time	Type of Noise Screening	Screening Correction dB(A)	Horizontal Distance, m	Distance Correction, dB(A)	Façade Correction dB(A)	CNL at NAP dB(A) from each PME	CNL at NAP dB(A)	
		Group <sup>[1]</sup>	Description											TM or other ref.
F1	Substructure	F1.A	Piling, large diameter bored, reverse circulation drill <sup>[2]</sup>	CNP 166	1	100	70%	N/A	0	327	-58	3	43	62
			Air Compressor, air flow > 10m <sup>3</sup> /min and < 30m <sup>3</sup> /min	CNP 002	1	102	70%	N/A	0	348	-59	3	45	
			Crane, mobile/barge mounted (diesel)	CNP 048	1	112	70%	N/A	0	348	-59	3	55	
			Excavator, wheeled/tracked	CNP 081	1	112	100%	N/A	0	348	-59	3	56	
			Generator, standard	CNP 101	2	108	100%	N/A	0	348	-59	3	55	
			Derrick barge	CNP 061	1	104	100%	N/A	0	348	-59	3	48	
			Tug boat	CNP 221	1	110	100%	N/A	0	348	-59	3	54	
			Water pump, submersible (electric)	CNP 283	2	85	100%	N/A	0	348	-59	3	32	
		F1.B	Piling, large diameter bored, oscillator <sup>[2]</sup>	CNP 165	1	115	70%	N/A	0	327	-58	3	58	63
			Air Compressor, air flow > 10m <sup>3</sup> /min and < 30m <sup>3</sup> /min	CNP 002	1	102	70%	N/A	0	348	-59	3	45	
			Crane, mobile/barge mounted (diesel)	CNP 048	1	112	70%	N/A	0	348	-59	3	55	
			Excavator, wheeled/tracked	CNP 081	1	112	100%	N/A	0	348	-59	3	56	
			Generator, standard	CNP 101	2	108	100%	N/A	0	348	-59	3	55	
			Derrick barge	CNP 061	1	104	100%	N/A	0	348	-59	3	48	
			Tug boat	CNP 221	1	110	100%	N/A	0	348	-59	3	54	
			Water pump, submersible (electric)	CNP 283	2	85	100%	N/A	0	348	-59	3	32	
		F1.C	Piling, large diameter bored, grab and chisel <sup>[2]</sup>	CNP 164	1	115	70%	N/A	0	327	-58	3	58	63
			Air Compressor, air flow > 10m <sup>3</sup> /min and < 30m <sup>3</sup> /min	CNP 002	1	102	70%	N/A	0	348	-59	3	45	
			Crane, mobile/barge mounted (diesel)	CNP 048	1	112	70%	N/A	0	348	-59	3	55	
			Excavator, wheeled/tracked	CNP 081	1	112	100%	N/A	0	348	-59	3	56	
			Generator, standard	CNP 101	2	108	100%	N/A	0	348	-59	3	55	
			Derrick barge	CNP 061	1	104	100%	N/A	0	348	-59	3	48	
			Tug boat	CNP 221	1	110	100%	N/A	0	348	-59	3	54	
			Water pump, submersible (electric)	CNP 283	2	85	100%	N/A	0	348	-59	3	32	
		F1.D	Crane, mobile/barge mounted (diesel)	CNP 048	1	112	100%	N/A	0	348	-59	3	56	64
			Excavator/loader, wheeled/tracked	CNP 081	1	112	100%	N/A	0	348	-59	3	56	
			Generator, standard	CNP 101	2	108	100%	N/A	0	348	-59	3	55	
			Water pump, submersible (electric)	CNP 283	2	85	100%	N/A	0	348	-59	3	32	
			Concrete pump, stationary/lorry mounted	CNP 047	1	109	100%	N/A	0	348	-59	3	53	
			Concrete lorry mixer	CNP 044	1	109	100%	N/A	0	348	-59	3	53	
			Poker, vibratory, hand-held	CNP 170	1	113	100%	N/A	0	348	-59	3	57	
			Bar bender and cutter (electric)	CNP 021	1	90	100%	N/A	0	348	-59	3	34	
			Derrick barge	CNP 061	1	104	100%	N/A	0	348	-59	3	48	
			Tug boat	CNP 221	1	110	100%	N/A	0	348	-59	3	54	
		<b>CNL at NAP dB(A) <sup>[3]</sup></b>												<b>64</b>
		F2	Superstructure	F2.A	Crane, mobile/barge mounted (diesel)	CNP 048	1	112	100%	N/A	0	348	-59	3
Derrick barge	CNP 061				1	104	100%	N/A	0	348	-59	3	40	
Tug boat	CNP 221				1	110	100%	N/A	0	348	-59	3	40	
Winch (petrol)	CNP 263				1	102	100%	N/A	0	348	-59	3	46	
Winch (pneumatic)	CNP 261				1	110	100%	N/A	0	348	-59	3	54	
Generator, standard	CNP 101				2	108	100%	N/A	0	348	-59	3	55	
Concrete pump, stationary/lorry mounted	CNP 047				1	109	100%	N/A	0	348	-59	3	53	
Concrete lorry mixer	CNP 044				1	109	100%	N/A	0	348	-59	3	53	
Poker, vibratory, hand-held	CNP 170				2	113	100%	N/A	0	348	-59	3	60	
Excavator/loader, wheeled/tracked	CNP 081				2	112	100%	N/A	0	348	-59	3	59	
Bar bender and cutter (electric)	CNP 021				1	90	100%	N/A	0	348	-59	3	34	
Asphalt paver	CNP 004				1	101	100%	N/A	0	348	-59	3	45	
Roller, vibratory	CNP 186				1	101	100%	N/A	0	348	-59	3	45	
<b>CNL at NAP dB(A)</b>												<b>65</b>		

Notes:  
 [1]: PMEs in each works group are assigned to sub-groups by considering the work process, such that each sub-group would not take place with others at the same time.  
 [2]: The PME will be used at the exact fixed locations as shown in Figure 4.3, the nearest fixed location have been used for this assessment.  
 [3]: The highest CNL at NAP among the groups is adopted.  
 [4]: The boundary of the construction works areas are shown in Figure 4.3.



Appendix 4.4 - Details of Construction Noise Assessment (Unmitigated Scenario)  
 Airport Tung Chung Link Project Environmental Impact Assessment

Calculation of Construction Noise Level (Unmitigated Scenario) (Construction Works Area A)  
 NAP: N01b - Seaview Crescent Block 3

Activity ID	Description of Activity	PME		No. of PME	SWL dB(A)/unit	% on time	Type of Noise Screening	Screening Correction dB(A)	Horizontal Distance, m	Distance Correction, dB(A)	Façade Correction dB(A)	CNL at NAP dB(A) from each PME	CNL at NAP dB(A)	
		Group	Description											TM or other ref.
A1	Site Establishment	A1.A	Excavator/loader, wheeled/tracked	CNP 081	1	112	100%	N/A	0	263	-56	3	59	71
			Crane, mobile/barge mounted (diesel)	CNP 048	1	112	100%	N/A	0	263	-56	3	59	
			Generator, standard	CNP 101	1	108	100%	N/A	0	263	-56	3	55	
			Breaker, excavator mounted (hydraulic)	CNP 028	1	122	100%	N/A	0	263	-56	3	69	
			Piling, vibrating hammer <sup>[1]</sup>	EPD	1	115	100%	N/A	0	263	-56	3	62	
			Dump truck, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[1]</sup>	EPD	1	105	70%	N/A	0	263	-56	3	50	
			Concrete pump, stationary/lorry mounted	CNP 047	1	109	100%	N/A	0	263	-56	3	56	
			Concrete lorry mixer	CNP 044	1	109	100%	N/A	0	263	-56	3	56	
			Poker, vibratory, hand-held	CNP 170	1	113	100%	N/A	0	263	-56	3	60	
			Asphalt paver	CNP 004	1	109	100%	N/A	0	263	-56	3	56	
			Roller, vibratory	CNP 186	1	108	100%	N/A	0	263	-56	3	55	
			Water pump (electric)	CNP 281	1	88	100%	N/A	0	263	-56	3	35	
<b>CNL at NAP dB(A)</b>												<b>71</b>		

Notes:

[1]: The SWL is referenced to EPD website: [https://www.epd.gov.hk/epd/sites/default/files/epd/english/application\\_for\\_licences/guidance/files/OtherSWLe.pdf](https://www.epd.gov.hk/epd/sites/default/files/epd/english/application_for_licences/guidance/files/OtherSWLe.pdf)

[2]: The boundary of the construction works areas are shown in Figure 4.3.



Appendix 4.4 - Details of Construction Noise Assessment (Unmitigated Scenario)  
 Airport Tung Chung Link Project Environmental Impact Assessment

Calculation of Construction Noise Level (Unmitigated Scenario) (Construction Works Area B)  
 NAP: N01b - Seaview Crescent Block 3

Activity ID	Description of Activity	PME		No. of PME	SWL dB(A)/unit	% on time	Type of Noise Screening	Screening Correction dB(A)	Horizontal Distance, m	Distance Correction, dB(A)	Façade Correction dB(A)	CNL at NAP dB(A) from each PME	CNL at NAP dB(A)	
		Group <sup>[1]</sup>	Description											TM or other ref.
B1	Site Establishment	B1.A	Excavator/loader, wheeled/tracked	CNP 081	2	112	100%	N/A	0	202	-54	3	64	73
			Crane, mobile/barge mounted (diesel)	CNP 048	1	112	100%	N/A	0	202	-54	3	61	
			Generator, standard	CNP 101	1	108	100%	N/A	0	202	-54	3	57	
			Breaker, excavator mounted (hydraulic)	CNP 028	1	122	100%	N/A	0	202	-54	3	71	
			Piling, vibrating hammer <sup>[2]</sup>	EPD	1	115	100%	N/A	0	202	-54	3	64	
			Dump truck, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	70%	N/A	0	202	-54	3	52	
			Water pump (electric)	CNP 281	1	88	100%	N/A	0	202	-54	3	37	
<b>CNL at NAP dB(A)</b>												<b>73</b>		
B2	Substructure	B2.A	Piling, large diameter bored, grab and chisel <sup>[3]</sup>	CNP 164	1	115	70%	N/A	0	210	-54	3	62	68
			Air Compressor, air flow > 10m <sup>3</sup> /min and < 30m <sup>3</sup> /min	CNP 002	1	102	70%	N/A	0	202	-54	3	49	
			Crane, mobile/barge mounted (diesel)	CNP 048	1	112	70%	N/A	0	202	-54	3	59	
			Generator, standard	CNP 101	1	108	100%	N/A	0	202	-54	3	57	
			Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	70%	N/A	0	202	-54	3	52	
			Excavator/loader, wheeled/tracked	CNP 081	2	112	100%	N/A	0	202	-54	3	64	
			Water pump (electric)	CNP 281	2	88	100%	N/A	0	202	-54	3	40	
		B2.B	Piling, large diameter bored, oscillator <sup>[3]</sup>	CNP 165	1	115	70%	N/A	0	210	-54	3	62	68
			Air Compressor, air flow > 10m <sup>3</sup> /min and < 30m <sup>3</sup> /min	CNP 002	1	102	70%	N/A	0	202	-54	3	49	
			Crane, mobile/barge mounted (diesel)	CNP 048	1	112	70%	N/A	0	202	-54	3	59	
			Generator, standard	CNP 101	1	108	100%	N/A	0	202	-54	3	57	
			Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	70%	N/A	0	202	-54	3	52	
			Excavator/loader, wheeled/tracked	CNP 081	2	112	100%	N/A	0	202	-54	3	64	
			Water pump (electric)	CNP 281	2	88	100%	N/A	0	202	-54	3	40	
		B2.C	Piling, large diameter bored, reverse circulation drill <sup>[3]</sup>	CNP 166	1	100	70%	N/A	0	210	-54	3	47	66
			Air Compressor, air flow > 10m <sup>3</sup> /min and < 30m <sup>3</sup> /min	CNP 002	1	102	70%	N/A	0	202	-54	3	49	
			Crane, mobile/barge mounted (diesel)	CNP 048	1	112	70%	N/A	0	202	-54	3	59	
			Generator, standard	CNP 101	1	108	100%	N/A	0	202	-54	3	57	
			Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	70%	N/A	0	202	-54	3	52	
			Excavator/loader, wheeled/tracked	CNP 081	2	112	100%	N/A	0	202	-54	3	64	
			Water pump (electric)	CNP 281	2	88	100%	N/A	0	202	-54	3	40	
		B2.D	Crane, mobile/barge mounted (diesel)	CNP 048	1	112	100%	N/A	0	202	-54	3	61	70
			Generator, standard	CNP 101	1	108	100%	N/A	0	202	-54	3	57	
			Concrete pump, stationary/lorry mounted	CNP 047	1	109	100%	N/A	0	202	-54	3	58	
			Concrete lorry mixer	CNP 044	2	109	100%	N/A	0	202	-54	3	61	
			Poker, vibratory, hand-held	CNP 170	2	113	100%	N/A	0	202	-54	3	65	
			Bar bender and cutter (electric)	CNP 021	1	90	100%	N/A	0	202	-54	3	39	
			Excavator/loader, wheeled/tracked	CNP 081	2	112	100%	N/A	0	202	-54	3	64	
Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD		1	105	100%	N/A	0	202	-54	3	54			
Water pump (electric)	CNP 281		2	88	100%	N/A	0	202	-54	3	40			
<b>CNL at NAP dB(A) <sup>[5]</sup></b>												<b>70</b>		
B3	Superstructure	B3.A	Crane, mobile/barge mounted (diesel)	CNP 048	1	112	100%	N/A	0	202	-54	3	61	70
			Generator, standard	CNP 101	2	108	100%	N/A	0	202	-54	3	60	
			Concrete pump, stationary/lorry mounted	CNP 047	1	109	100%	N/A	0	202	-54	3	58	
			Concrete lorry mixer	CNP 044	1	109	100%	N/A	0	202	-54	3	58	
			Poker, vibratory, hand-held	CNP 170	2	113	100%	N/A	0	202	-54	3	65	
			Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	100%	N/A	0	202	-54	3	54	
			Excavator/loader, wheeled/tracked	CNP 081	2	112	100%	N/A	0	202	-54	3	64	
			Bar bender and cutter (electric)	CNP 021	1	90	100%	N/A	0	202	-54	3	39	
			Asphalt paver	CNP 004	1	109	100%	N/A	0	202	-54	3	58	
			Roller, vibratory	CNP 186	1	108	100%	N/A	0	202	-54	3	57	
<b>CNL at NAP dB(A)</b>												<b>70</b>		
B4	Building Service and Finishes	B4.A	Generator, standard	CNP 101	1	108	100%	N/A	0	202	-54	3	57	61
			Cherry picker <sup>[4]</sup>	Ref: AEIAR-173/2013	2	107	100%	N/A	0	202	-54	3	59	
<b>CNL at NAP dB(A)</b>												<b>61</b>		

Notes:  
 [1]: PMEs in each works group are assigned to sub-groups by considering the work process, such that each sub-group would not take place with others at the same time.  
 [2]: The SWL is referenced to EPD website: [https://www.epd.gov.hk/epd/sites/default/files/epd/english/application\\_for\\_licences/guidance/files/OtherSWLe.pdf](https://www.epd.gov.hk/epd/sites/default/files/epd/english/application_for_licences/guidance/files/OtherSWLe.pdf)  
 [3]: The PME will be used at the exact fixed locations as shown in Figure 4.3, the nearest fixed location have been used for this assessment.  
 [4]: The SWL of the PME is referenced to the EIA report of the Tseung Kwan O – Lam Tin Tunnel and Associated Works (Register No. AEIAR-173/2013).  
 [5]: The highest CNL at NAP among the groups is adopted.  
 [6]: The boundary of the construction works areas are shown in Figure 4.3.

Appendix 4.4 - Details of Construction Noise Assessment (Unmitigated Scenario)  
 Airport Tung Chung Link Project Environmental Impact Assessment

Calculation of Construction Noise Level (Unmitigated Scenario) (Construction Works Area C)

NAP: N01b - Seaview Crescent Block 3

Activity ID	Description of Activity	PME			No. of PME	SWL dB(A)/unit	% on time	Type of Noise Screening	Screening Correction dB(A)	Horizontal Distance, m	Distance Correction, dB(A)	Façade Correction dB(A)	CNL at NAP dB(A) from each PME	CNL at NAP dB(A)
		Group <sup>[1]</sup>	Description	TM or other ref.										
C1	Site Establishment	C1.A	Excavator/loader, wheeled/tracked	CNP 081	1	112	100%	N/A	0	205	-54	3	61	72
			Dump truck, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	70%	N/A	0	205	-54	3	52	
			Piling, vibrating hammer <sup>[2]</sup>	EPD	1	115	100%	N/A	0	205	-54	3	64	
			Breaker, excavator mounted (hydraulic)	CNP 028	1	122	100%	N/A	0	205	-54	3	71	
			Generator, standard	CNP 101	1	108	100%	N/A	0	205	-54	3	57	
			<b>CNL at NAP dB(A)</b>											
C2	Substructure	C2.A	Piling, large diameter bored, grab and chisel <sup>[3]</sup>	CNP 164	1	115	70%	N/A	0	204	-54	3	62	66
			Air Compressor, air flow > 10m <sup>3</sup> /min and < 30m <sup>3</sup> /min	CNP 002	1	102	70%	N/A	0	205	-54	3	49	
			Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	70%	N/A	0	205	-54	3	52	
			Excavator/loader, wheeled/tracked	CNP 081	1	112	100%	N/A	0	205	-54	3	61	
			Crane, mobile/barge mounted (diesel)	CNP 048	1	112	70%	N/A	0	205	-54	3	59	
			Generator, standard	CNP 101	1	108	100%	N/A	0	205	-54	3	57	
			Water pump (electric)	CNP 281	2	88	100%	N/A	0	205	-54	3	40	
		C2.B	Piling, large diameter bored, oscillator <sup>[3]</sup>	CNP 165	1	115	70%	N/A	0	204	-54	3	62	66
			Air Compressor, air flow > 10m <sup>3</sup> /min and < 30m <sup>3</sup> /min	CNP 002	1	102	70%	N/A	0	205	-54	3	49	
			Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	70%	N/A	0	205	-54	3	52	
			Excavator/loader, wheeled/tracked	CNP 081	1	112	100%	N/A	0	205	-54	3	61	
			Crane, mobile/barge mounted (diesel)	CNP 048	1	112	70%	N/A	0	205	-54	3	59	
			Generator, standard	CNP 101	1	108	100%	N/A	0	205	-54	3	57	
			Water pump (electric)	CNP 281	2	88	100%	N/A	0	205	-54	3	40	
		C2.C	Piling, large diameter bored, reverse circulation drill <sup>[3]</sup>	CNP 166	1	100	70%	N/A	0	204	-54	3	47	65
			Air Compressor, air flow > 10m <sup>3</sup> /min and < 30m <sup>3</sup> /min	CNP 002	1	102	70%	N/A	0	205	-54	3	49	
			Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	70%	N/A	0	205	-54	3	52	
			Excavator/loader, wheeled/tracked	CNP 081	1	112	100%	N/A	0	205	-54	3	61	
			Crane, mobile/barge mounted (diesel)	CNP 048	1	112	70%	N/A	0	205	-54	3	59	
			Generator, standard	CNP 101	1	108	100%	N/A	0	205	-54	3	57	
			Water pump (electric)	CNP 281	2	88	100%	N/A	0	205	-54	3	40	
		C2.D	Crane, mobile/barge mounted (diesel)	CNP 048	1	112	100%	N/A	0	205	-54	3	61	70
			Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	100%	N/A	0	205	-54	3	54	
			Excavator/loader, wheeled/tracked	CNP 081	2	112	100%	N/A	0	205	-54	3	64	
			Generator, standard	CNP 101	1	108	100%	N/A	0	205	-54	3	57	
			Water pump (electric)	CNP 281	2	88	100%	N/A	0	205	-54	3	40	
			Concrete pump, stationary/lorry mounted	CNP 047	1	109	100%	N/A	0	205	-54	3	58	
			Bar bender and cutter (electric)	CNP 021	1	90	100%	N/A	0	205	-54	3	39	
			Poker, vibratory, hand-held	CNP 170	2	113	100%	N/A	0	205	-54	3	65	
		Concrete lorry mixer	CNP 044	2	109	100%	N/A	0	205	-54	3	61		
<b>CNL at NAP dB(A) <sup>[4]</sup></b>												<b>70</b>		
C3	Superstructure	C3.A	Crane, mobile/barge mounted (diesel)	CNP 048	1	112	100%	N/A	0	205	-54	3	61	61
			Winch (petrol)	CNP 263	1	102	100%	N/A	0	205	-54	3	51	
		C3.B	Crane, mobile/barge mounted (diesel)	CNP 048	1	112	100%	N/A	0	205	-54	3	61	67
			Winch (electric)	CNP 262	1	95	100%	N/A	0	205	-54	3	44	
			Generator, standard	CNP 101	2	108	100%	N/A	0	205	-54	3	60	
			Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	100%	N/A	0	205	-54	3	54	
			Excavator/loader, wheeled/tracked	CNP 081	2	112	100%	N/A	0	205	-54	3	64	
		C3.C	Concrete pump, stationary/lorry mounted	CNP 047	1	109	100%	N/A	0	205	-54	3	58	67
			Concrete lorry mixer	CNP 044	1	109	100%	N/A	0	205	-54	3	58	
			Poker, vibratory, hand-held	CNP 170	2	113	100%	N/A	0	205	-54	3	65	
			Generator, standard	CNP 101	2	108	100%	N/A	0	205	-54	3	60	
		C3.D	Generator, standard	CNP 101	2	108	100%	N/A	0	205	-54	3	60	60
			Bar bender and cutter (electric)	CNP 021	1	90	100%	N/A	0	205	-54	3	39	
		C3.E	Asphalt paver	CNP 004	1	109	100%	N/A	0	205	-54	3	58	60
			Roller, vibratory	CNP 186	1	108	100%	N/A	0	205	-54	3	57	
<b>CNL at NAP dB(A) <sup>[4]</sup></b>												<b>67</b>		

Notes:  
 [1]: PMEs in each works group are assigned to sub-groups by considering the work process, such that each sub-group would not take place with others at the same time.  
 [2]: The SWL is referenced to EPD website: [https://www.epd.gov.hk/epd/sites/default/files/epd/english/application\\_for\\_licences/guidance/files/OtherSWLe.pdf](https://www.epd.gov.hk/epd/sites/default/files/epd/english/application_for_licences/guidance/files/OtherSWLe.pdf)  
 [3]: The PME will be used at the exact fixed locations as shown in Figure 4.3, the nearest fixed location have been used for this assessment.  
 [4]: The highest CNL at NAP among the groups is adopted.  
 [5]: The boundary of the construction works areas are shown in Figure 4.3.

Appendix 4.4 - Details of Construction Noise Assessment (Unmitigated Scenario)  
 Airport Tung Chung Link Project Environmental Impact Assessment

Calculation of Construction Noise Level (Unmitigated Scenario) (Construction Works Area D)

NAP: N01b - Seaview Crescent Block 3

Activity ID	Description of Activity	PME			No. of PME	SWL dB(A)/unit	% on time	Type of Noise Screening	Screening Correction dB(A)	Horizontal Distance, m	Distance Correction, dB(A)	Façade Correction dB(A)	CNL at NAP dB(A) from each PME	CNL at NAP dB(A)
		Group <sup>[1]</sup>	Description	TM or other ref.										
D1	Site Establishment	D1.A	Excavator/loader, wheeled/tracked	CNP 081	1	112	100%	N/A	0	245	-56	3	59	71
			Dump truck, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	70%	N/A	0	245	-56	3	51	
			Piling, vibrating hammer <sup>[2]</sup>	EPD	1	115	100%	N/A	0	245	-56	3	62	
			Breaker, excavator mounted (hydraulic)	CNP 028	1	122	100%	N/A	0	245	-56	3	69	
			Generator, standard	CNP 101	1	108	100%	N/A	0	245	-56	3	55	
												<b>CNL at NAP dB(A)</b>	<b>71</b>	
D2	Substructure	D2.A	Piling, large diameter bored, grab and chisel <sup>[3]</sup>	CNP 164	1	115	70%	N/A	0	239	-56	3	61	65
			Air Compressor, air flow > 10m <sup>3</sup> /min and < 30m <sup>3</sup> /min	CNP 002	1	102	70%	N/A	0	245	-56	3	48	
			Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	70%	N/A	0	245	-56	3	51	
			Excavator/loader, wheeled/tracked	CNP 081	1	112	100%	N/A	0	245	-56	3	59	
			Crane, mobile/barge mounted (diesel)	CNP 048	1	112	70%	N/A	0	245	-56	3	58	
			Generator, standard	CNP 101	1	108	100%	N/A	0	245	-56	3	55	
			Water pump (electric)	CNP 281	2	88	100%	N/A	0	245	-56	3	38	
		D2.B	Piling, large diameter bored, oscillator <sup>[3]</sup>	CNP 165	1	115	70%	N/A	0	239	-56	3	61	65
			Air Compressor, air flow > 10m <sup>3</sup> /min and < 30m <sup>3</sup> /min	CNP 002	1	102	70%	N/A	0	245	-56	3	48	
			Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	70%	N/A	0	245	-56	3	51	
			Excavator/loader, wheeled/tracked	CNP 081	1	112	100%	N/A	0	245	-56	3	59	
			Crane, mobile/barge mounted (diesel)	CNP 048	1	112	70%	N/A	0	245	-56	3	58	
			Generator, standard	CNP 101	1	108	100%	N/A	0	245	-56	3	55	
		D2.C	Piling, large diameter bored, reverse circulation drill <sup>[3]</sup>	CNP 166	1	100	70%	N/A	0	239	-56	3	46	63
			Air Compressor, air flow > 10m <sup>3</sup> /min and < 30m <sup>3</sup> /min	CNP 002	1	102	70%	N/A	0	245	-56	3	48	
			Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	70%	N/A	0	245	-56	3	51	
			Excavator/loader, wheeled/tracked	CNP 081	1	112	100%	N/A	0	245	-56	3	59	
			Crane, mobile/barge mounted (diesel)	CNP 048	1	112	70%	N/A	0	245	-56	3	58	
			Generator, standard	CNP 101	1	108	100%	N/A	0	245	-56	3	55	
		D2.D	Water pump (electric)	CNP 281	2	88	100%	N/A	0	245	-56	3	38	68
			Crane, mobile/barge mounted (diesel)	CNP 048	1	112	100%	N/A	0	245	-56	3	59	
			Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	100%	N/A	0	245	-56	3	52	
			Excavator/loader, wheeled/tracked	CNP 081	2	112	100%	N/A	0	245	-56	3	62	
			Generator, standard	CNP 101	1	108	100%	N/A	0	245	-56	3	55	
			Water pump (electric)	CNP 281	2	88	100%	N/A	0	245	-56	3	38	
			Concrete pump, stationary/lorry mounted	CNP 047	1	109	100%	N/A	0	245	-56	3	56	
			Bar bender and cutter (electric)	CNP 021	1	90	100%	N/A	0	245	-56	3	37	
		Poker, vibratory, hand-held	CNP 170	2	113	100%	N/A	0	245	-56	3	63		
Concrete lorry mixer	CNP 044	2	109	100%	N/A	0	245	-56	3	59				
												<b>CNL at NAP dB(A) <sup>[4]</sup></b>	<b>68</b>	
D3	Superstructure	D3.A	Crane, mobile/barge mounted (diesel)	CNP 048	1	112	100%	N/A	0	245	-56	3	59	60
			Winch (petrol)	CNP 263	1	102	100%	N/A	0	245	-56	3	49	
		D3.B	Crane, mobile/barge mounted (diesel)	CNP 048	1	112	100%	N/A	0	245	-56	3	59	65
			Winch (electric)	CNP 262	1	95	100%	N/A	0	245	-56	3	42	
			Generator, standard	CNP 101	2	108	100%	N/A	0	245	-56	3	58	
			Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	100%	N/A	0	245	-56	3	52	
		D3.C	Excavator/loader, wheeled/tracked	CNP 081	2	112	100%	N/A	0	245	-56	3	62	66
			Concrete pump, stationary/lorry mounted	CNP 047	1	109	100%	N/A	0	245	-56	3	56	
			Concrete lorry mixer	CNP 044	1	109	100%	N/A	0	245	-56	3	56	
			Poker, vibratory, hand-held	CNP 170	2	113	100%	N/A	0	245	-56	3	63	
			Generator, standard	CNP 101	2	108	100%	N/A	0	245	-56	3	58	
		D3.D	Generator, standard	CNP 101	2	108	100%	N/A	0	245	-56	3	58	58
			Bar bender and cutter (electric)	CNP 021	1	90	100%	N/A	0	245	-56	3	37	
		D3.E	Asphalt paver	CNP 004	1	109	100%	N/A	0	245	-56	3	56	59
			Roller, vibratory	CNP 186	1	108	100%	N/A	0	245	-56	3	55	
												<b>CNL at NAP dB(A) <sup>[4]</sup></b>	<b>66</b>	

Notes:  
 [1]: PMEs in each works group are assigned to sub-groups by considering the work process, such that each sub-group would not take place with others at the same time.  
 [2]: The SWL is referenced to EPD website: [https://www.epd.gov.hk/epd/sites/default/files/epd/english/application\\_for\\_licences/guidance/files/OtherSWLe.pdf](https://www.epd.gov.hk/epd/sites/default/files/epd/english/application_for_licences/guidance/files/OtherSWLe.pdf)  
 [3]: The PME will be used at the exact fixed locations as shown in Figure 4.3, the nearest fixed location have been used for this assessment.  
 [4]: The highest CNL at NAP among the groups is adopted.  
 [5]: The boundary of the construction works areas are shown in Figure 4.3.

Appendix 4.4 - Details of Construction Noise Assessment (Unmitigated Scenario)  
 Airport Tung Chung Link Project Environmental Impact Assessment

Calculation of Construction Noise Level (Unmitigated Scenario) (Construction Works Area E)  
 NAP: N01b - Seaview Crescent Block 3

Activity ID	Description of Activity	PME		No. of PME	SWL dB(A)/unit	% on time	Type of Noise Screening	Screening Correction dB(A)	Horizontal Distance, m	Distance Correction, dB(A)	Façade Correction dB(A)	CNL at NAP dB(A) from each PME	CNL at NAP dB(A)	
		Group <sup>[1]</sup>	Description											TM or other ref.
E1	Site Establishment	E1.A	Excavator/loader, wheeled/tracked	CNP 081	1	112	100%	N/A	0	316	-58	3	57	68
			Generator, standard	CNP 101	1	108	100%	N/A	0	316	-58	3	53	
			Dump truck, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	70%	N/A	0	316	-58	3	48	
			Piling, vibrating hammer <sup>[2]</sup>	EPD	1	115	100%	N/A	0	316	-58	3	60	
			Breaker, excavator mounted (hydraulic)	CNP 028	1	122	100%	N/A	0	316	-58	3	67	
<b>CNL at NAP dB(A)</b>												<b>68</b>		
E2	Substructure	E2.A	Piling, large diameter bored, reverse circulation drill <sup>[3]</sup>	CNP 166	1	100	70%	N/A	0	325	-58	3	43	67
			Piling, large diameter bored, oscillator <sup>[3]</sup>	CNP 165	1	115	70%	N/A	0	325	-58	3	58	
			Air Compressor, air flow > 10m <sup>3</sup> /min and < 30m <sup>3</sup> /min	CNP 002	1	102	100%	N/A	0	316	-58	3	47	
			Crane, mobile/barge mounted (diesel)	CNP 048	1	112	100%	N/A	0	316	-58	3	57	
			Generator, standard	CNP 101	1	108	100%	N/A	0	316	-58	3	53	
			Piling, large diameter bored, grab and chisel <sup>[3]</sup>	CNP 164	1	115	70%	N/A	0	325	-58	3	58	
			Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	100%	N/A	0	316	-58	3	50	
			Concrete pump, stationary/lorry mounted	CNP 047	1	109	100%	N/A	0	316	-58	3	54	
			Concrete lorry mixer	CNP 044	2	109	100%	N/A	0	316	-58	3	57	
			Bar bender and cutter (electric)	CNP 021	1	90	100%	N/A	0	316	-58	3	35	
			Excavator/loader, wheeled/tracked	CNP 081	1	112	100%	N/A	0	316	-58	3	57	
			Water pump (electric)	CNP 281	2	88	100%	N/A	0	316	-58	3	36	
Poker, vibratory, hand-held	CNP 170	2	113	100%	N/A	0	316	-58	3	61				
<b>CNL at NAP dB(A)</b>												<b>67</b>		
E3	Superstructure	E3.A	Crane, mobile/barge mounted (diesel)	CNP 048	1	112	100%	N/A	0	316	-58	3	57	66
			Winch (petrol)	CNP 263	1	102	100%	N/A	0	316	-58	3	47	
			Winch (electric)	CNP 262	1	95	100%	N/A	0	316	-58	3	40	
			Generator, standard	CNP 101	2	108	100%	N/A	0	316	-58	3	56	
			Concrete pump, stationary/lorry mounted	CNP 047	1	109	100%	N/A	0	316	-58	3	54	
			Concrete lorry mixer	CNP 044	1	109	100%	N/A	0	316	-58	3	54	
			Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	100%	N/A	0	316	-58	3	50	
			Poker, vibratory, hand-held	CNP 170	2	113	100%	N/A	0	316	-58	3	61	
			Excavator/loader, wheeled/tracked	CNP 081	2	112	100%	N/A	0	316	-58	3	60	
			Bar bender and cutter (electric)	CNP 021	1	90	100%	N/A	0	316	-58	3	35	
			Asphalt paver	CNP 004	1	109	100%	N/A	0	316	-58	3	54	
			Roller, vibratory	CNP 186	1	108	100%	N/A	0	316	-58	3	53	
<b>CNL at NAP dB(A)</b>												<b>66</b>		
E4	Landscape Softworks and Cycle Track	E4.A	Excavator/loader, wheeled/tracked	CNP 081	1	112	100%	N/A	0	316	-58	3	57	60
			Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	100%	N/A	0	316	-58	3	50	
			Generator, standard	CNP 101	1	108	100%	N/A	0	316	-58	3	53	
			Compactor, vibratory	CNP 050	1	105	100%	N/A	0	316	-58	3	50	
<b>CNL at NAP dB(A)</b>												<b>60</b>		

Notes:  
 [1]: PMEs in each works group are assigned to sub-groups by considering the work process, such that each sub-group would not take place with others at the same time.  
 [2]: The SWL is referenced to EPD website: [https://www.epd.gov.hk/epd/sites/default/files/epd/english/application\\_for\\_licences/guidance/files/OtherSWLe.pdf](https://www.epd.gov.hk/epd/sites/default/files/epd/english/application_for_licences/guidance/files/OtherSWLe.pdf)  
 [3]: The PME will be used at the exact fixed locations as shown in Figure 4.3, the nearest fixed location have been used for this assessment.  
 [4]: The boundary of the construction works areas are shown in Figure 4.3.

Appendix 4.4 - Details of Construction Noise Assessment (Unmitigated Scenario)  
 Airport Tung Chung Link Project Environmental Impact Assessment

Calculation of Construction Noise Level (Unmitigated Scenario) (Construction Works Area F)  
 NAP: N01b - Seaview Crescent Block 3

Activity ID	Description of Activity	PME		No. of PME	SWL dB(A)/unit	% on time	Type of Noise Screening	Screening Correction dB(A)	Horizontal Distance, m	Distance Correction, dB(A)	Façade Correction dB(A)	CNL at NAP dB(A) from each PME	CNL at NAP dB(A)	
		Group <sup>[1]</sup>	Description											TM or other ref.
F1	Substructure	F1.A	Piling, large diameter bored, reverse circulation drill <sup>[2]</sup>	CNP 166	1	100	70%	N/A	0	396	-60	3	42	60
			Air Compressor, air flow > 10m <sup>3</sup> /min and < 30m <sup>3</sup> /min	CNP 002	1	102	70%	N/A	0	419	-60	3	43	
			Crane, mobile/barge mounted (diesel)	CNP 048	1	112	70%	N/A	0	419	-60	3	53	
			Excavator, wheeled/tracked	CNP 081	1	112	100%	N/A	0	419	-60	3	55	
			Generator, standard	CNP 101	2	108	100%	N/A	0	419	-60	3	54	
			Derrick barge	CNP 061	1	104	100%	N/A	0	419	-60	3	47	
			Tug boat	CNP 221	1	110	100%	N/A	0	419	-60	3	53	
			Water pump, submersible (electric)	CNP 283	2	85	100%	N/A	0	419	-60	3	31	
		F1.B	Piling, large diameter bored, oscillator <sup>[2]</sup>	CNP 165	1	115	70%	N/A	0	396	-60	3	57	62
			Air Compressor, air flow > 10m <sup>3</sup> /min and < 30m <sup>3</sup> /min	CNP 002	1	102	70%	N/A	0	419	-60	3	43	
			Crane, mobile/barge mounted (diesel)	CNP 048	1	112	70%	N/A	0	419	-60	3	53	
			Excavator, wheeled/tracked	CNP 081	1	112	100%	N/A	0	419	-60	3	55	
			Generator, standard	CNP 101	2	108	100%	N/A	0	419	-60	3	54	
			Derrick barge	CNP 061	1	104	100%	N/A	0	419	-60	3	47	
			Tug boat	CNP 221	1	110	100%	N/A	0	419	-60	3	53	
			Water pump, submersible (electric)	CNP 283	2	85	100%	N/A	0	419	-60	3	31	
		F1.C	Piling, large diameter bored, grab and chisel <sup>[2]</sup>	CNP 164	1	115	70%	N/A	0	396	-60	3	57	62
			Air Compressor, air flow > 10m <sup>3</sup> /min and < 30m <sup>3</sup> /min	CNP 002	1	102	70%	N/A	0	419	-60	3	43	
			Crane, mobile/barge mounted (diesel)	CNP 048	1	112	70%	N/A	0	419	-60	3	53	
			Excavator, wheeled/tracked	CNP 081	1	112	100%	N/A	0	419	-60	3	55	
			Generator, standard	CNP 101	2	108	100%	N/A	0	419	-60	3	54	
			Derrick barge	CNP 061	1	104	100%	N/A	0	419	-60	3	47	
			Tug boat	CNP 221	1	110	100%	N/A	0	419	-60	3	53	
			Water pump, submersible (electric)	CNP 283	2	85	100%	N/A	0	419	-60	3	31	
		F1.D	Crane, mobile/barge mounted (diesel)	CNP 048	1	112	100%	N/A	0	419	-60	3	55	62
			Excavator/loader, wheeled/tracked	CNP 081	1	112	100%	N/A	0	419	-60	3	55	
			Generator, standard	CNP 101	2	108	100%	N/A	0	419	-60	3	54	
			Water pump, submersible (electric)	CNP 283	2	85	100%	N/A	0	419	-60	3	31	
			Concrete pump, stationary/lorry mounted	CNP 047	1	109	100%	N/A	0	419	-60	3	52	
			Concrete lorry mixer	CNP 044	1	109	100%	N/A	0	419	-60	3	52	
			Poker, vibratory, hand-held	CNP 170	1	113	100%	N/A	0	419	-60	3	56	
			Bar bender and cutter (electric)	CNP 021	1	90	100%	N/A	0	419	-60	3	33	
			Derrick barge	CNP 061	1	104	100%	N/A	0	419	-60	3	47	
			Tug boat	CNP 221	1	110	100%	N/A	0	419	-60	3	53	
		<b>CNL at NAP dB(A) <sup>[3]</sup></b>												<b>62</b>
		F2	Superstructure	F2.A	Crane, mobile/barge mounted (diesel)	CNP 048	1	112	100%	N/A	0	419	-60	3
Derrick barge	CNP 061				1	104	100%	N/A	0	419	-60	3	40	
Tug boat	CNP 221				1	110	100%	N/A	0	419	-60	3	40	
Winch (petrol)	CNP 263				1	102	100%	N/A	0	419	-60	3	45	
Winch (pneumatic)	CNP 261				1	110	100%	N/A	0	419	-60	3	53	
Generator, standard	CNP 101				2	108	100%	N/A	0	419	-60	3	54	
Concrete pump, stationary/lorry mounted	CNP 047				1	109	100%	N/A	0	419	-60	3	52	
Concrete lorry mixer	CNP 044				1	109	100%	N/A	0	419	-60	3	52	
Poker, vibratory, hand-held	CNP 170				2	113	100%	N/A	0	419	-60	3	59	
Excavator/loader, wheeled/tracked	CNP 081				2	112	100%	N/A	0	419	-60	3	58	
Bar bender and cutter (electric)	CNP 021				1	90	100%	N/A	0	419	-60	3	33	
Asphalt paver	CNP 004				1	101	100%	N/A	0	419	-60	3	44	
Roller, vibratory	CNP 186				1	101	100%	N/A	0	419	-60	3	44	
<b>CNL at NAP dB(A)</b>												<b>64</b>		

Notes:  
 [1]: PMEs in each works group are assigned to sub-groups by considering the work process, such that each sub-group would not take place with others at the same time.  
 [2]: The PME will be used at the exact fixed locations as shown in Figure 4.3, the nearest fixed location have been used for this assessment.  
 [3]: The highest CNL at NAP among the groups is adopted.  
 [4]: The boundary of the construction works areas are shown in Figure 4.3.



Appendix 4.4 - Details of Construction Noise Assessment (Unmitigated Scenario)  
 Airport Tung Chung Link Project Environmental Impact Assessment

Calculation of Construction Noise Level (Unmitigated Scenario) (Construction Works Area A)  
 NAP: N03a - Ling Liang Church E Wun Secondary School

Activity ID	Description of Activity	PME		No. of PME	SWL dB(A)/unit	% on time	Type of Noise Screening	Screening Correction dB(A)	Horizontal Distance, m	Distance Correction, dB(A)	Façade Correction dB(A)	CNL at NAP dB(A) from each PME	CNL at NAP dB(A)	
		Group	Description											TM or other ref.
A1	Site Establishment	A1.A	Excavator/loader, wheeled/tracked	CNP 081	1	112	100%	N/A	0	221	-55	3	60	73
			Crane, mobile/barge mounted (diesel)	CNP 048	1	112	100%	N/A	0	221	-55	3	60	
			Generator, standard	CNP 101	1	108	100%	N/A	0	221	-55	3	56	
			Breaker, excavator mounted (hydraulic)	CNP 028	1	122	100%	N/A	0	221	-55	3	70	
			Piling, vibrating hammer <sup>[1]</sup>	EPD	1	115	100%	N/A	0	221	-55	3	63	
			Dump truck, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[1]</sup>	EPD	1	105	70%	N/A	0	221	-55	3	52	
			Concrete pump, stationary/lorry mounted	CNP 047	1	109	100%	N/A	0	221	-55	3	57	
			Concrete lorry mixer	CNP 044	1	109	100%	N/A	0	221	-55	3	57	
			Poker, vibratory, hand-held	CNP 170	1	113	100%	N/A	0	221	-55	3	61	
			Asphalt paver	CNP 004	1	109	100%	N/A	0	221	-55	3	57	
			Roller, vibratory	CNP 186	1	108	100%	N/A	0	221	-55	3	56	
			Water pump (electric)	CNP 281	1	88	100%	N/A	0	221	-55	3	36	
<b>CNL at NAP dB(A)</b>												<b>73</b>		

Notes:

[1]: The SWL is referenced to EPD website: [https://www.epd.gov.hk/epd/sites/default/files/epd/english/application\\_for\\_licences/guidance/files/OtherSWLe.pdf](https://www.epd.gov.hk/epd/sites/default/files/epd/english/application_for_licences/guidance/files/OtherSWLe.pdf)

[2]: The boundary of the construction works areas are shown in Figure 4.3.

Appendix 4.4 - Details of Construction Noise Assessment (Unmitigated Scenario)  
 Airport Tung Chung Link Project Environmental Impact Assessment

Calculation of Construction Noise Level (Unmitigated Scenario) (Construction Works Area B)  
 NAP: N03a - Ling Liang Church E Wun Secondary School

Activity ID	Description of Activity	PME		No. of PME	SWL dB(A)/unit	% on time	Type of Noise Screening	Screening Correction dB(A)	Horizontal Distance, m	Distance Correction, dB(A)	Façade Correction dB(A)	CNL at NAP dB(A) from each PME	CNL at NAP dB(A)	
		Group <sup>[1]</sup>	Description											TM or other ref.
B1	Site Establishment	B1.A	Excavator/loader, wheeled/tracked	CNP 081	2	112	100%	N/A	0	309	-58	3	60	69
			Crane, mobile/barge mounted (diesel)	CNP 048	1	112	100%	N/A	0	309	-58	3	57	
			Generator, standard	CNP 101	1	108	100%	N/A	0	309	-58	3	53	
			Breaker, excavator mounted (hydraulic)	CNP 028	1	122	100%	N/A	0	309	-58	3	67	
			Piling, vibrating hammer <sup>[2]</sup>	EPD	1	115	100%	N/A	0	309	-58	3	60	
			Dump truck, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	70%	N/A	0	309	-58	3	49	
			Water pump (electric)	CNP 281	1	88	100%	N/A	0	309	-58	3	33	
<b>CNL at NAP dB(A)</b>												<b>69</b>		
B2	Substructure	B2.A	Piling, large diameter bored, grab and chisel <sup>[3]</sup>	CNP 164	1	115	70%	N/A	0	305	-58	3	59	64
			Air Compressor, air flow > 10m <sup>3</sup> /min and < 30m <sup>3</sup> /min	CNP 002	1	102	70%	N/A	0	309	-58	3	46	
			Crane, mobile/barge mounted (diesel)	CNP 048	1	112	70%	N/A	0	309	-58	3	56	
			Generator, standard	CNP 101	1	108	100%	N/A	0	309	-58	3	53	
			Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	70%	N/A	0	309	-58	3	49	
			Excavator/loader, wheeled/tracked	CNP 081	2	112	100%	N/A	0	309	-58	3	60	
			Water pump (electric)	CNP 281	2	88	100%	N/A	0	309	-58	3	36	
		B2.B	Piling, large diameter bored, oscillator <sup>[3]</sup>	CNP 165	1	115	70%	N/A	0	305	-58	3	59	64
			Air Compressor, air flow > 10m <sup>3</sup> /min and < 30m <sup>3</sup> /min	CNP 002	1	102	70%	N/A	0	309	-58	3	46	
			Crane, mobile/barge mounted (diesel)	CNP 048	1	112	70%	N/A	0	309	-58	3	56	
			Generator, standard	CNP 101	1	108	100%	N/A	0	309	-58	3	53	
			Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	70%	N/A	0	309	-58	3	49	
			Excavator/loader, wheeled/tracked	CNP 081	2	112	100%	N/A	0	309	-58	3	60	
			Water pump (electric)	CNP 281	2	88	100%	N/A	0	309	-58	3	36	
		B2.C	Piling, large diameter bored, reverse circulation drill <sup>[3]</sup>	CNP 166	1	100	70%	N/A	0	305	-58	3	44	62
			Air Compressor, air flow > 10m <sup>3</sup> /min and < 30m <sup>3</sup> /min	CNP 002	1	102	70%	N/A	0	309	-58	3	46	
			Crane, mobile/barge mounted (diesel)	CNP 048	1	112	70%	N/A	0	309	-58	3	56	
			Generator, standard	CNP 101	1	108	100%	N/A	0	309	-58	3	53	
			Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	70%	N/A	0	309	-58	3	49	
			Excavator/loader, wheeled/tracked	CNP 081	2	112	100%	N/A	0	309	-58	3	60	
			Water pump (electric)	CNP 281	2	88	100%	N/A	0	309	-58	3	36	
		B2.D	Crane, mobile/barge mounted (diesel)	CNP 048	1	112	100%	N/A	0	309	-58	3	57	66
			Generator, standard	CNP 101	1	108	100%	N/A	0	309	-58	3	53	
			Concrete pump, stationary/lorry mounted	CNP 047	1	109	100%	N/A	0	309	-58	3	54	
			Concrete lorry mixer	CNP 044	2	109	100%	N/A	0	309	-58	3	57	
			Poker, vibratory, hand-held	CNP 170	2	113	100%	N/A	0	309	-58	3	61	
			Bar bender and cutter (electric)	CNP 021	1	90	100%	N/A	0	309	-58	3	35	
			Excavator/loader, wheeled/tracked	CNP 081	2	112	100%	N/A	0	309	-58	3	60	
Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD		1	105	100%	N/A	0	309	-58	3	50			
Water pump (electric)	CNP 281		2	88	100%	N/A	0	309	-58	3	36			
<b>CNL at NAP dB(A) <sup>[5]</sup></b>												<b>66</b>		
B3	Superstructure	B3.A	Crane, mobile/barge mounted (diesel)	CNP 048	1	112	100%	N/A	0	309	-58	3	57	66
			Generator, standard	CNP 101	2	108	100%	N/A	0	309	-58	3	56	
			Concrete pump, stationary/lorry mounted	CNP 047	1	109	100%	N/A	0	309	-58	3	54	
			Concrete lorry mixer	CNP 044	1	109	100%	N/A	0	309	-58	3	54	
			Poker, vibratory, hand-held	CNP 170	2	113	100%	N/A	0	309	-58	3	61	
			Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	100%	N/A	0	309	-58	3	50	
			Excavator/loader, wheeled/tracked	CNP 081	2	112	100%	N/A	0	309	-58	3	60	
			Bar bender and cutter (electric)	CNP 021	1	90	100%	N/A	0	309	-58	3	35	
			Asphalt paver	CNP 004	1	109	100%	N/A	0	309	-58	3	54	
			Roller, vibratory	CNP 186	1	108	100%	N/A	0	309	-58	3	53	
<b>CNL at NAP dB(A)</b>												<b>66</b>		
B4	Building Service and Finishes	B4.A	Generator, standard	CNP 101	1	108	100%	N/A	0	309	-58	3	53	57
			Cherry picker <sup>[4]</sup>	Ref: AEIAR-173/2013	2	107	100%	N/A	0	309	-58	3	55	
<b>CNL at NAP dB(A)</b>												<b>57</b>		

Notes:  
 [1]: PMEs in each works group are assigned to sub-groups by considering the work process, such that each sub-group would not take place with others at the same time.  
 [2]: The SWL is referenced to EPD website: [https://www.epd.gov.hk/epd/sites/default/files/epd/english/application\\_for\\_licences/guidance/files/OtherSWLe.pdf](https://www.epd.gov.hk/epd/sites/default/files/epd/english/application_for_licences/guidance/files/OtherSWLe.pdf)  
 [3]: The PME will be used at the exact fixed locations as shown in Figure 4.3, the nearest fixed location have been used for this assessment.  
 [4]: The SWL of the PME is referenced to the EIA report of the Tseung Kwan O – Lam Tin Tunnel and Associated Works (Register No. AEIAR-173/2013).  
 [5]: The highest CNL at NAP among the groups is adopted.  
 [6]: The boundary of the construction works areas are shown in Figure 4.3.



Appendix 4.4 - Details of Construction Noise Assessment (Unmitigated Scenario)  
 Airport Tung Chung Link Project Environmental Impact Assessment

Calculation of Construction Noise Level (Unmitigated Scenario) (Construction Works Area C)  
 NAP: N03a - Ling Liang Church E Wun Secondary School

Activity ID	Description of Activity	PME			No. of PME	SWL dB(A)/unit	% on time	Type of Noise Screening	Screening Correction dB(A)	Horizontal Distance, m	Distance Correction, dB(A)	Façade Correction dB(A)	CNL at NAP dB(A) from each PME	CNL at NAP dB(A)
		Group <sup>[1]</sup>	Description	TM or other ref.										
C1	Site Establishment	C1.A	Excavator/loader, wheeled/tracked	CNP 081	1	112	100%	N/A	0	424	-61	3	54	66
			Dump truck, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	70%	N/A	0	424	-61	3	46	
			Piling, vibrating hammer <sup>[2]</sup>	EPD	1	115	100%	N/A	0	424	-61	3	57	
			Breaker, excavator mounted (hydraulic)	CNP 028	1	122	100%	N/A	0	424	-61	3	64	
			Generator, standard	CNP 101	1	108	100%	N/A	0	424	-61	3	50	
			<b>CNL at NAP dB(A)</b>											
C2	Substructure	C2.A	Piling, large diameter bored, grab and chisel <sup>[3]</sup>	CNP 164	1	115	70%	N/A	0	434	-61	3	56	60
			Air Compressor, air flow > 10m <sup>3</sup> /min and < 30m <sup>3</sup> /min	CNP 002	1	102	70%	N/A	0	424	-61	3	43	
			Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	70%	N/A	0	424	-61	3	46	
			Excavator/loader, wheeled/tracked	CNP 081	1	112	100%	N/A	0	424	-61	3	54	
			Crane, mobile/barge mounted (diesel)	CNP 048	1	112	70%	N/A	0	424	-61	3	53	
			Generator, standard	CNP 101	1	108	100%	N/A	0	424	-61	3	50	
			Water pump (electric)	CNP 281	2	88	100%	N/A	0	424	-61	3	33	
		C2.B	Piling, large diameter bored, oscillator <sup>[3]</sup>	CNP 165	1	115	70%	N/A	0	434	-61	3	56	60
			Air Compressor, air flow > 10m <sup>3</sup> /min and < 30m <sup>3</sup> /min	CNP 002	1	102	70%	N/A	0	424	-61	3	43	
			Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	70%	N/A	0	424	-61	3	46	
			Excavator/loader, wheeled/tracked	CNP 081	1	112	100%	N/A	0	424	-61	3	54	
			Crane, mobile/barge mounted (diesel)	CNP 048	1	112	70%	N/A	0	424	-61	3	53	
			Generator, standard	CNP 101	1	108	100%	N/A	0	424	-61	3	50	
			Water pump (electric)	CNP 281	2	88	100%	N/A	0	424	-61	3	33	
		C2.C	Piling, large diameter bored, reverse circulation drill <sup>[3]</sup>	CNP 166	1	100	70%	N/A	0	434	-61	3	41	58
			Air Compressor, air flow > 10m <sup>3</sup> /min and < 30m <sup>3</sup> /min	CNP 002	1	102	70%	N/A	0	424	-61	3	43	
			Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	70%	N/A	0	424	-61	3	46	
			Excavator/loader, wheeled/tracked	CNP 081	1	112	100%	N/A	0	424	-61	3	54	
			Crane, mobile/barge mounted (diesel)	CNP 048	1	112	70%	N/A	0	424	-61	3	53	
			Generator, standard	CNP 101	1	108	100%	N/A	0	424	-61	3	50	
			Water pump (electric)	CNP 281	2	88	100%	N/A	0	424	-61	3	33	
		C2.D	Crane, mobile/barge mounted (diesel)	CNP 048	1	112	100%	N/A	0	424	-61	3	54	63
			Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	100%	N/A	0	424	-61	3	47	
			Excavator/loader, wheeled/tracked	CNP 081	2	112	100%	N/A	0	424	-61	3	57	
			Generator, standard	CNP 101	1	108	100%	N/A	0	424	-61	3	50	
			Water pump (electric)	CNP 281	2	88	100%	N/A	0	424	-61	3	33	
			Concrete pump, stationary/lorry mounted	CNP 047	1	109	100%	N/A	0	424	-61	3	51	
			Bar bender and cutter (electric)	CNP 021	1	90	100%	N/A	0	424	-61	3	32	
			Poker, vibratory, hand-held	CNP 170	2	113	100%	N/A	0	424	-61	3	58	
		Concrete lorry mixer	CNP 044	2	109	100%	N/A	0	424	-61	3	54		
<b>CNL at NAP dB(A)<sup>[4]</sup></b>												<b>63</b>		
C3	Superstructure	C3.A	Crane, mobile/barge mounted (diesel)	CNP 048	1	112	100%	N/A	0	424	-61	3	54	55
			Winch (petrol)	CNP 263	1	102	100%	N/A	0	424	-61	3	44	
		C3.B	Crane, mobile/barge mounted (diesel)	CNP 048	1	112	100%	N/A	0	424	-61	3	54	61
			Winch (electric)	CNP 262	1	95	100%	N/A	0	424	-61	3	37	
			Generator, standard	CNP 101	2	108	100%	N/A	0	424	-61	3	53	
			Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	100%	N/A	0	424	-61	3	47	
			Excavator/loader, wheeled/tracked	CNP 081	2	112	100%	N/A	0	424	-61	3	57	
		C3.C	Concrete pump, stationary/lorry mounted	CNP 047	1	109	100%	N/A	0	424	-61	3	51	61
			Concrete lorry mixer	CNP 044	1	109	100%	N/A	0	424	-61	3	51	
			Poker, vibratory, hand-held	CNP 170	2	113	100%	N/A	0	424	-61	3	58	
			Generator, standard	CNP 101	2	108	100%	N/A	0	424	-61	3	53	
		C3.D	Generator, standard	CNP 101	2	108	100%	N/A	0	424	-61	3	53	54
			Bar bender and cutter (electric)	CNP 021	1	90	100%	N/A	0	424	-61	3	32	
		C3.E	Asphalt paver	CNP 004	1	109	100%	N/A	0	424	-61	3	51	54
			Roller, vibratory	CNP 186	1	108	100%	N/A	0	424	-61	3	50	
<b>CNL at NAP dB(A)<sup>[4]</sup></b>												<b>61</b>		

Notes:  
 [1]: PMEs in each works group are assigned to sub-groups by considering the work process, such that each sub-group would not take place with others at the same time.  
 [2]: The SWL is referenced to EPD website: [https://www.epd.gov.hk/epd/sites/default/files/epd/english/application\\_for\\_licences/guidance/files/OtherSWLe.pdf](https://www.epd.gov.hk/epd/sites/default/files/epd/english/application_for_licences/guidance/files/OtherSWLe.pdf)  
 [3]: The PME will be used at the exact fixed locations as shown in Figure 4.3, the nearest fixed location have been used for this assessment.  
 [4]: The highest CNL at NAP among the groups is adopted.  
 [5]: The boundary of the construction works areas are shown in Figure 4.3.

Appendix 4.4 - Details of Construction Noise Assessment (Unmitigated Scenario)  
 Airport Tung Chung Link Project Environmental Impact Assessment

Calculation of Construction Noise Level (Unmitigated Scenario) (Construction Works Area D)  
 NAP: N03a - Ling Liang Church E Wun Secondary School

Activity ID	Description of Activity	PME			No. of PME	SWL dB(A)/unit	% on time	Type of Noise Screening	Screening Correction dB(A)	Horizontal Distance, m	Distance Correction, dB(A)	Façade Correction dB(A)	CNL at NAP dB(A) from each PME	CNL at NAP dB(A)
		Group <sup>[1]</sup>	Description	TM or other ref.										
D1	Site Establishment	D1.A	Excavator/loader, wheeled/tracked	CNP 081	1	112	100%	N/A	0	512	-62	3	53	64
			Dump truck, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	70%	N/A	0	512	-62	3	44	
			Piling, vibrating hammer <sup>[2]</sup>	EPD	1	115	100%	N/A	0	512	-62	3	56	
			Breaker, excavator mounted (hydraulic)	CNP 028	1	122	100%	N/A	0	512	-62	3	63	
			Generator, standard	CNP 101	1	108	100%	N/A	0	512	-62	3	49	
												<b>CNL at NAP dB(A)</b>	<b>64</b>	
D2	Substructure	D2.A	Piling, large diameter bored, grab and chisel <sup>[3]</sup>	CNP 164	1	115	70%	N/A	0	508	-62	3	54	59
			Air Compressor, air flow > 10m <sup>3</sup> /min and < 30m <sup>3</sup> /min	CNP 002	1	102	70%	N/A	0	512	-62	3	41	
			Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	70%	N/A	0	512	-62	3	44	
			Excavator/loader, wheeled/tracked	CNP 081	1	112	100%	N/A	0	512	-62	3	53	
			Crane, mobile/barge mounted (diesel)	CNP 048	1	112	70%	N/A	0	512	-62	3	51	
			Generator, standard	CNP 101	1	108	100%	N/A	0	512	-62	3	49	
			Water pump (electric)	CNP 281	2	88	100%	N/A	0	512	-62	3	32	
		D2.B	Piling, large diameter bored, oscillator <sup>[3]</sup>	CNP 165	1	115	70%	N/A	0	508	-62	3	54	59
			Air Compressor, air flow > 10m <sup>3</sup> /min and < 30m <sup>3</sup> /min	CNP 002	1	102	70%	N/A	0	512	-62	3	41	
			Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	70%	N/A	0	512	-62	3	44	
			Excavator/loader, wheeled/tracked	CNP 081	1	112	100%	N/A	0	512	-62	3	53	
			Crane, mobile/barge mounted (diesel)	CNP 048	1	112	70%	N/A	0	512	-62	3	51	
			Generator, standard	CNP 101	1	108	100%	N/A	0	512	-62	3	49	
		D2.C	Piling, large diameter bored, reverse circulation drill <sup>[3]</sup>	CNP 166	1	100	70%	N/A	0	508	-62	3	39	57
			Air Compressor, air flow > 10m <sup>3</sup> /min and < 30m <sup>3</sup> /min	CNP 002	1	102	70%	N/A	0	512	-62	3	41	
			Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	70%	N/A	0	512	-62	3	44	
			Excavator/loader, wheeled/tracked	CNP 081	1	112	100%	N/A	0	512	-62	3	53	
			Crane, mobile/barge mounted (diesel)	CNP 048	1	112	70%	N/A	0	512	-62	3	51	
			Generator, standard	CNP 101	1	108	100%	N/A	0	512	-62	3	49	
		D2.D	Water pump (electric)	CNP 281	2	88	100%	N/A	0	512	-62	3	32	62
			Crane, mobile/barge mounted (diesel)	CNP 048	1	112	100%	N/A	0	512	-62	3	53	
			Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	100%	N/A	0	512	-62	3	46	
			Excavator/loader, wheeled/tracked	CNP 081	2	112	100%	N/A	0	512	-62	3	56	
			Generator, standard	CNP 101	1	108	100%	N/A	0	512	-62	3	49	
			Water pump (electric)	CNP 281	2	88	100%	N/A	0	512	-62	3	32	
			Concrete pump, stationary/lorry mounted	CNP 047	1	109	100%	N/A	0	512	-62	3	50	
			Bar bender and cutter (electric)	CNP 021	1	90	100%	N/A	0	512	-62	3	31	
		Poker, vibratory, hand-held	CNP 170	2	113	100%	N/A	0	512	-62	3	57		
Concrete lorry mixer	CNP 044	2	109	100%	N/A	0	512	-62	3	53				
												<b>CNL at NAP dB(A) <sup>[4]</sup></b>	<b>62</b>	
D3	Superstructure	D3.A	Crane, mobile/barge mounted (diesel)	CNP 048	1	112	100%	N/A	0	512	-62	3	53	53
			Winch (petrol)	CNP 263	1	102	100%	N/A	0	512	-62	3	43	
		D3.B	Crane, mobile/barge mounted (diesel)	CNP 048	1	112	100%	N/A	0	512	-62	3	53	59
			Winch (electric)	CNP 262	1	95	100%	N/A	0	512	-62	3	36	
			Generator, standard	CNP 101	2	108	100%	N/A	0	512	-62	3	52	
			Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	100%	N/A	0	512	-62	3	46	
		D3.C	Excavator/loader, wheeled/tracked	CNP 081	2	112	100%	N/A	0	512	-62	3	56	59
			Concrete pump, stationary/lorry mounted	CNP 047	1	109	100%	N/A	0	512	-62	3	50	
			Concrete lorry mixer	CNP 044	1	109	100%	N/A	0	512	-62	3	50	
			Poker, vibratory, hand-held	CNP 170	2	113	100%	N/A	0	512	-62	3	57	
			Generator, standard	CNP 101	2	108	100%	N/A	0	512	-62	3	52	
		D3.D	Generator, standard	CNP 101	2	108	100%	N/A	0	512	-62	3	52	52
			Bar bender and cutter (electric)	CNP 021	1	90	100%	N/A	0	512	-62	3	31	
		D3.E	Asphalt paver	CNP 004	1	109	100%	N/A	0	512	-62	3	50	52
			Roller, vibratory	CNP 186	1	108	100%	N/A	0	512	-62	3	49	
												<b>CNL at NAP dB(A) <sup>[4]</sup></b>	<b>59</b>	

Notes:  
 [1]: PMEs in each works group are assigned to sub-groups by considering the work process, such that each sub-group would not take place with others at the same time.  
 [2]: The SWL is referenced to EPD website: [https://www.epd.gov.hk/epd/sites/default/files/epd/english/application\\_for\\_licences/guidance/files/OtherSWLe.pdf](https://www.epd.gov.hk/epd/sites/default/files/epd/english/application_for_licences/guidance/files/OtherSWLe.pdf)  
 [3]: The PME will be used at the exact fixed locations as shown in Figure 4.3, the nearest fixed location have been used for this assessment.  
 [4]: The highest CNL at NAP among the groups is adopted.  
 [5]: The boundary of the construction works areas are shown in Figure 4.3.

Appendix 4.4 - Details of Construction Noise Assessment (Unmitigated Scenario)  
 Airport Tung Chung Link Project Environmental Impact Assessment

Calculation of Construction Noise Level (Unmitigated Scenario) (Construction Works Area E)

NAP: N03a - Ling Liang Church E Wun Secondary School

Activity ID	Description of Activity	PME			No. of PME	SWL dB(A)/unit	% on time	Type of Noise Screening	Screening Correction dB(A)	Horizontal Distance, m	Distance Correction, dB(A)	Façade Correction dB(A)	CNL at NAP dB(A) from each PME	CNL at NAP dB(A)
		Group <sup>[1]</sup>	Description	TM or other ref.										
E1	Site Establishment	E1.A	Excavator/loader, wheeled/tracked	CNP 081	1	112	100%	N/A	0	671	-65	3	50	62
			Generator, standard	CNP 101	1	108	100%	N/A	0	671	-65	3	46	
			Dump truck, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	70%	N/A	0	671	-65	3	42	
			Piling, vibrating hammer <sup>[2]</sup>	EPD	1	115	100%	N/A	0	671	-65	3	53	
			Breaker, excavator mounted (hydraulic)	CNP 028	1	122	100%	N/A	0	671	-65	3	60	
<b>CNL at NAP dB(A)</b>												<b>62</b>		
E2	Substructure	E2.A	Piling, large diameter bored, reverse circulation drill <sup>[3]</sup>	CNP 166	1	100	70%	N/A	0	626	-64	3	38	60
			Piling, large diameter bored, oscillator <sup>[3]</sup>	CNP 165	1	115	70%	N/A	0	626	-64	3	53	
			Air Compressor, air flow > 10m <sup>3</sup> /min and < 30m <sup>3</sup> /min	CNP 002	1	102	100%	N/A	0	671	-65	3	40	
			Crane, mobile/barge mounted (diesel)	CNP 048	1	112	100%	N/A	0	671	-65	3	50	
			Generator, standard	CNP 101	1	108	100%	N/A	0	671	-65	3	46	
			Piling, large diameter bored, grab and chisel <sup>[3]</sup>	CNP 164	1	115	70%	N/A	0	626	-64	3	53	
			Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	100%	N/A	0	671	-65	3	43	
			Concrete pump, stationary/lorry mounted	CNP 047	1	109	100%	N/A	0	671	-65	3	47	
			Concrete lorry mixer	CNP 044	2	109	100%	N/A	0	671	-65	3	50	
			Bar bender and cutter (electric)	CNP 021	1	90	100%	N/A	0	671	-65	3	28	
			Excavator/loader, wheeled/tracked	CNP 081	1	112	100%	N/A	0	671	-65	3	50	
			Water pump (electric)	CNP 281	2	88	100%	N/A	0	671	-65	3	29	
Poker, vibratory, hand-held	CNP 170	2	113	100%	N/A	0	671	-65	3	54				
<b>CNL at NAP dB(A)</b>												<b>60</b>		
E3	Superstructure	E3.A	Crane, mobile/barge mounted (diesel)	CNP 048	1	112	100%	N/A	0	671	-65	3	50	60
			Winch (petrol)	CNP 263	1	102	100%	N/A	0	671	-65	3	40	
			Winch (electric)	CNP 262	1	95	100%	N/A	0	671	-65	3	33	
			Generator, standard	CNP 101	2	108	100%	N/A	0	671	-65	3	49	
			Concrete pump, stationary/lorry mounted	CNP 047	1	109	100%	N/A	0	671	-65	3	47	
			Concrete lorry mixer	CNP 044	1	109	100%	N/A	0	671	-65	3	47	
			Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	100%	N/A	0	671	-65	3	43	
			Poker, vibratory, hand-held	CNP 170	2	113	100%	N/A	0	671	-65	3	54	
			Excavator/loader, wheeled/tracked	CNP 081	2	112	100%	N/A	0	671	-65	3	53	
			Bar bender and cutter (electric)	CNP 021	1	90	100%	N/A	0	671	-65	3	28	
			Asphalt paver	CNP 004	1	109	100%	N/A	0	671	-65	3	47	
			Roller, vibratory	CNP 186	1	108	100%	N/A	0	671	-65	3	46	
<b>CNL at NAP dB(A)</b>												<b>60</b>		
E4	Landscape Softworks and Cycle Track	E4.A	Excavator/loader, wheeled/tracked	CNP 081	1	112	100%	N/A	0	671	-65	3	50	53
			Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	100%	N/A	0	671	-65	3	43	
			Generator, standard	CNP 101	1	108	100%	N/A	0	671	-65	3	46	
			Compactor, vibratory	CNP 050	1	105	100%	N/A	0	671	-65	3	43	
<b>CNL at NAP dB(A)</b>												<b>53</b>		

Notes:

[1]: PMEs in each works group are assigned to sub-groups by considering the work process, such that each sub-group would not take place with others at the same time.

[2]: The SWL is referenced to EPD website: [https://www.epd.gov.hk/epd/sites/default/files/epd/english/application\\_for\\_licences/guidance/files/OtherSWLe.pdf](https://www.epd.gov.hk/epd/sites/default/files/epd/english/application_for_licences/guidance/files/OtherSWLe.pdf)

[3]: The PME will be used at the exact fixed locations as shown in Figure 4.3, the nearest fixed location have been used for this assessment.

[4]: The boundary of the construction works areas are shown in Figure 4.3.

Appendix 4.4 - Details of Construction Noise Assessment (Unmitigated Scenario)  
 Airport Tung Chung Link Project Environmental Impact Assessment

Calculation of Construction Noise Level (Unmitigated Scenario) (Construction Works Area F)  
 NAP: N03a - Ling Liang Church E Wun Secondary School

Activity ID	Description of Activity	PME		No. of PME	SWL dB(A)/unit	% on time	Type of Noise Screening	Screening Correction dB(A)	Horizontal Distance, m	Distance Correction, dB(A)	Façade Correction dB(A)	CNL at NAP dB(A) from each PME	CNL at NAP dB(A)	
		Group <sup>[1]</sup>	Description											TM or other ref.
F1	Substructure	F1.A	Piling, large diameter bored, reverse circulation drill <sup>[2]</sup>	CNP 166	1	100	70%	N/A	0	703	-65	3	37	55
			Air Compressor, air flow > 10m <sup>3</sup> /min and < 30m <sup>3</sup> /min	CNP 002	1	102	70%	N/A	0	720	-65	3	38	
			Crane, mobile/barge mounted (diesel)	CNP 048	1	112	70%	N/A	0	720	-65	3	48	
			Excavator, wheeled/tracked	CNP 081	1	112	100%	N/A	0	720	-65	3	50	
			Generator, standard	CNP 101	2	108	100%	N/A	0	720	-65	3	49	
			Derrick barge	CNP 061	1	104	100%	N/A	0	720	-65	3	42	
			Tug boat	CNP 221	1	110	100%	N/A	0	720	-65	3	48	
			Water pump, submersible (electric)	CNP 283	2	85	100%	N/A	0	720	-65	3	26	
		F1.B	Piling, large diameter bored, oscillator <sup>[2]</sup>	CNP 165	1	115	70%	N/A	0	703	-65	3	52	57
			Air Compressor, air flow > 10m <sup>3</sup> /min and < 30m <sup>3</sup> /min	CNP 002	1	102	70%	N/A	0	720	-65	3	38	
			Crane, mobile/barge mounted (diesel)	CNP 048	1	112	70%	N/A	0	720	-65	3	48	
			Excavator, wheeled/tracked	CNP 081	1	112	100%	N/A	0	720	-65	3	50	
			Generator, standard	CNP 101	2	108	100%	N/A	0	720	-65	3	49	
			Derrick barge	CNP 061	1	104	100%	N/A	0	720	-65	3	42	
			Tug boat	CNP 221	1	110	100%	N/A	0	720	-65	3	48	
			Water pump, submersible (electric)	CNP 283	2	85	100%	N/A	0	720	-65	3	26	
		F1.C	Piling, large diameter bored, grab and chisel <sup>[2]</sup>	CNP 164	1	115	70%	N/A	0	703	-65	3	52	57
			Air Compressor, air flow > 10m <sup>3</sup> /min and < 30m <sup>3</sup> /min	CNP 002	1	102	70%	N/A	0	720	-65	3	38	
			Crane, mobile/barge mounted (diesel)	CNP 048	1	112	70%	N/A	0	720	-65	3	48	
			Excavator, wheeled/tracked	CNP 081	1	112	100%	N/A	0	720	-65	3	50	
			Generator, standard	CNP 101	2	108	100%	N/A	0	720	-65	3	49	
			Derrick barge	CNP 061	1	104	100%	N/A	0	720	-65	3	42	
			Tug boat	CNP 221	1	110	100%	N/A	0	720	-65	3	48	
			Water pump, submersible (electric)	CNP 283	2	85	100%	N/A	0	720	-65	3	26	
		F1.D	Crane, mobile/barge mounted (diesel)	CNP 048	1	112	100%	N/A	0	720	-65	3	50	58
			Excavator/loader, wheeled/tracked	CNP 081	1	112	100%	N/A	0	720	-65	3	50	
			Generator, standard	CNP 101	2	108	100%	N/A	0	720	-65	3	49	
			Water pump, submersible (electric)	CNP 283	2	85	100%	N/A	0	720	-65	3	26	
			Concrete pump, stationary/lorry mounted	CNP 047	1	109	100%	N/A	0	720	-65	3	47	
			Concrete lorry mixer	CNP 044	1	109	100%	N/A	0	720	-65	3	47	
			Poker, vibratory, hand-held	CNP 170	1	113	100%	N/A	0	720	-65	3	51	
			Bar bender and cutter (electric)	CNP 021	1	90	100%	N/A	0	720	-65	3	28	
			Derrick barge	CNP 061	1	104	100%	N/A	0	720	-65	3	42	
			Tug boat	CNP 221	1	110	100%	N/A	0	720	-65	3	48	
		<b>CNL at NAP dB(A) <sup>[3]</sup></b>												<b>58</b>
		F2	Superstructure	F2.A	Crane, mobile/barge mounted (diesel)	CNP 048	1	112	100%	N/A	0	720	-65	3
Derrick barge	CNP 061				1	104	100%	N/A	0	720	-65	3	40	
Tug boat	CNP 221				1	110	100%	N/A	0	720	-65	3	40	
Winch (petrol)	CNP 263				1	102	100%	N/A	0	720	-65	3	40	
Winch (pneumatic)	CNP 261				1	110	100%	N/A	0	720	-65	3	48	
Generator, standard	CNP 101				2	108	100%	N/A	0	720	-65	3	49	
Concrete pump, stationary/lorry mounted	CNP 047				1	109	100%	N/A	0	720	-65	3	47	
Concrete lorry mixer	CNP 044				1	109	100%	N/A	0	720	-65	3	47	
Poker, vibratory, hand-held	CNP 170				2	113	100%	N/A	0	720	-65	3	54	
Excavator/loader, wheeled/tracked	CNP 081				2	112	100%	N/A	0	720	-65	3	53	
Bar bender and cutter (electric)	CNP 021				1	90	100%	N/A	0	720	-65	3	28	
Asphalt paver	CNP 004				1	101	100%	N/A	0	720	-65	3	39	
Roller, vibratory	CNP 186				1	101	100%	N/A	0	720	-65	3	39	
<b>CNL at NAP dB(A)</b>												<b>59</b>		

Notes:  
 [1]: PMEs in each works group are assigned to sub-groups by considering the work process, such that each sub-group would not take place with others at the same time.  
 [2]: The PME will be used at the exact fixed locations as shown in Figure 4.3, the nearest fixed location have been used for this assessment.  
 [3]: The highest CNL at NAP among the groups is adopted.  
 [4]: The boundary of the construction works areas are shown in Figure 4.3.



Appendix 4.4 - Details of Construction Noise Assessment (Unmitigated Scenario)  
 Airport Tung Chung Link Project Environmental Impact Assessment

Calculation of Construction Noise Level (Unmitigated Scenario) (Construction Works Area A)  
 NAP: N08a - Fu Tung Estate Tung Ma House

Activity ID	Description of Activity	PME		No. of PME	SWL dB(A)/unit	% on time	Type of Noise Screening	Screening Correction dB(A)	Horizontal Distance, m	Distance Correction, dB(A)	Façade Correction dB(A)	CNL at NAP dB(A) from each PME	CNL at NAP dB(A)	
		Group	Description											TM or other ref.
A1	Site Establishment	A1.A	Excavator/loader, wheeled/tracked	CNP 081	1	112	100%	N/A	0	161	-52	3	63	75
			Crane, mobile/barge mounted (diesel)	CNP 048	1	112	100%	N/A	0	161	-52	3	63	
			Generator, standard	CNP 101	1	108	100%	N/A	0	161	-52	3	59	
			Breaker, excavator mounted (hydraulic)	CNP 028	1	122	100%	N/A	0	161	-52	3	73	
			Piling, vibrating hammer <sup>[1]</sup>	EPD	1	115	100%	N/A	0	161	-52	3	66	
			Dump truck, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[1]</sup>	EPD	1	105	70%	N/A	0	161	-52	3	54	
			Concrete pump, stationary/lorry mounted	CNP 047	1	109	100%	N/A	0	161	-52	3	60	
			Concrete lorry mixer	CNP 044	1	109	100%	N/A	0	161	-52	3	60	
			Poker, vibratory, hand-held	CNP 170	1	113	100%	N/A	0	161	-52	3	64	
			Asphalt paver	CNP 004	1	109	100%	N/A	0	161	-52	3	60	
			Roller, vibratory	CNP 186	1	108	100%	N/A	0	161	-52	3	59	
			Water pump (electric)	CNP 281	1	88	100%	N/A	0	161	-52	3	39	
<b>CNL at NAP dB(A)</b>												<b>75</b>		

Notes:

[1]: The SWL is referenced to EPD website: [https://www.epd.gov.hk/epd/sites/default/files/epd/english/application\\_for\\_licences/guidance/files/OtherSWLe.pdf](https://www.epd.gov.hk/epd/sites/default/files/epd/english/application_for_licences/guidance/files/OtherSWLe.pdf)

[2]: The boundary of the construction works areas are shown in Figure 4.3.

Appendix 4.4 - Details of Construction Noise Assessment (Unmitigated Scenario)  
 Airport Tung Chung Link Project Environmental Impact Assessment

Calculation of Construction Noise Level (Unmitigated Scenario) (Construction Works Area B)  
 NAP: N08a - Fu Tung Estate Tung Ma House

Activity ID	Description of Activity	PME		No. of PME	SWL dB(A)/unit	% on time	Type of Noise Screening	Screening Correction dB(A)	Horizontal Distance, m	Distance Correction, dB(A)	Façade Correction dB(A)	CNL at NAP dB(A) from each PME	CNL at NAP dB(A)	
		Group <sup>[1]</sup>	Description											TM or other ref.
B1	Site Establishment	B1.A	Excavator/loader, wheeled/tracked	CNP 081	2	112	100%	N/A	0	242	-56	3	62	71
			Crane, mobile/barge mounted (diesel)	CNP 048	1	112	100%	N/A	0	242	-56	3	59	
			Generator, standard	CNP 101	1	108	100%	N/A	0	242	-56	3	55	
			Breaker, excavator mounted (hydraulic)	CNP 028	1	122	100%	N/A	0	242	-56	3	69	
			Piling, vibrating hammer <sup>[2]</sup>	EPD	1	115	100%	N/A	0	242	-56	3	62	
			Dump truck, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	70%	N/A	0	242	-56	3	51	
			Water pump (electric)	CNP 281	1	88	100%	N/A	0	242	-56	3	35	
<b>CNL at NAP dB(A)</b>												<b>71</b>		
B2	Substructure	B2.A	Piling, large diameter bored, grab and chisel <sup>[3]</sup>	CNP 164	1	115	70%	N/A	0	233	-55	3	61	66
			Air Compressor, air flow > 10m <sup>3</sup> /min and < 30m <sup>3</sup> /min	CNP 002	1	102	70%	N/A	0	242	-56	3	48	
			Crane, mobile/barge mounted (diesel)	CNP 048	1	112	70%	N/A	0	242	-56	3	58	
			Generator, standard	CNP 101	1	108	100%	N/A	0	242	-56	3	55	
			Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	70%	N/A	0	242	-56	3	51	
			Excavator/loader, wheeled/tracked	CNP 081	2	112	100%	N/A	0	242	-56	3	62	
			Water pump (electric)	CNP 281	2	88	100%	N/A	0	242	-56	3	38	
		B2.B	Piling, large diameter bored, oscillator <sup>[3]</sup>	CNP 165	1	115	70%	N/A	0	233	-55	3	61	66
			Air Compressor, air flow > 10m <sup>3</sup> /min and < 30m <sup>3</sup> /min	CNP 002	1	102	70%	N/A	0	242	-56	3	48	
			Crane, mobile/barge mounted (diesel)	CNP 048	1	112	70%	N/A	0	242	-56	3	58	
			Generator, standard	CNP 101	1	108	100%	N/A	0	242	-56	3	55	
			Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	70%	N/A	0	242	-56	3	51	
			Excavator/loader, wheeled/tracked	CNP 081	2	112	100%	N/A	0	242	-56	3	62	
		B2.C	Piling, large diameter bored, reverse circulation drill <sup>[3]</sup>	CNP 166	1	100	70%	N/A	0	233	-55	3	46	65
			Air Compressor, air flow > 10m <sup>3</sup> /min and < 30m <sup>3</sup> /min	CNP 002	1	102	70%	N/A	0	242	-56	3	48	
			Crane, mobile/barge mounted (diesel)	CNP 048	1	112	70%	N/A	0	242	-56	3	58	
			Generator, standard	CNP 101	1	108	100%	N/A	0	242	-56	3	55	
			Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	70%	N/A	0	242	-56	3	51	
			Excavator/loader, wheeled/tracked	CNP 081	2	112	100%	N/A	0	242	-56	3	62	
		B2.D	Water pump (electric)	CNP 281	2	88	100%	N/A	0	242	-56	3	38	68
			Crane, mobile/barge mounted (diesel)	CNP 048	1	112	100%	N/A	0	242	-56	3	59	
			Generator, standard	CNP 101	1	108	100%	N/A	0	242	-56	3	55	
			Concrete pump, stationary/lorry mounted	CNP 047	1	109	100%	N/A	0	242	-56	3	56	
			Concrete lorry mixer	CNP 044	2	109	100%	N/A	0	242	-56	3	59	
			Poker, vibratory, hand-held	CNP 170	2	113	100%	N/A	0	242	-56	3	63	
			Bar bender and cutter (electric)	CNP 021	1	90	100%	N/A	0	242	-56	3	37	
			Excavator/loader, wheeled/tracked	CNP 081	2	112	100%	N/A	0	242	-56	3	62	
		Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	100%	N/A	0	242	-56	3	52		
B3	Superstructure	B3.A	Water pump (electric)	CNP 281	2	88	100%	N/A	0	242	-56	3	38	69
			Crane, mobile/barge mounted (diesel)	CNP 048	1	112	100%	N/A	0	242	-56	3	59	
			Generator, standard	CNP 101	2	108	100%	N/A	0	242	-56	3	58	
			Concrete pump, stationary/lorry mounted	CNP 047	1	109	100%	N/A	0	242	-56	3	56	
			Concrete lorry mixer	CNP 044	1	109	100%	N/A	0	242	-56	3	56	
			Poker, vibratory, hand-held	CNP 170	2	113	100%	N/A	0	242	-56	3	63	
			Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	100%	N/A	0	242	-56	3	52	
			Excavator/loader, wheeled/tracked	CNP 081	2	112	100%	N/A	0	242	-56	3	62	
			Bar bender and cutter (electric)	CNP 021	1	90	100%	N/A	0	242	-56	3	37	
			Asphalt paver	CNP 004	1	109	100%	N/A	0	242	-56	3	56	
B4	Building Service and Finishes	B4.A	Roller, vibratory	CNP 186	1	108	100%	N/A	0	242	-56	3	55	59
			Generator, standard	CNP 101	1	108	100%	N/A	0	242	-56	3	55	
<b>CNL at NAP dB(A)</b>												<b>59</b>		

Notes:  
 [1]: PMEs in each works group are assigned to sub-groups by considering the work process, such that each sub-group would not take place with others at the same time.  
 [2]: The SWL is referenced to EPD website: [https://www.epd.gov.hk/epd/sites/default/files/epd/english/application\\_for\\_licences/guidance/files/OtherSWLe.pdf](https://www.epd.gov.hk/epd/sites/default/files/epd/english/application_for_licences/guidance/files/OtherSWLe.pdf)  
 [3]: The PME will be used at the exact fixed locations as shown in Figure 4.3, the nearest fixed location have been used for this assessment.  
 [4]: The SWL of the PME is referenced to the EIA report of the Tseung Kwan O – Lam Tin Tunnel and Associated Works (Register No. AEIAR-173/2013).  
 [5]: The highest CNL at NAP among the groups is adopted.  
 [6]: The boundary of the construction works areas are shown in Figure 4.3.

Appendix 4.4 - Details of Construction Noise Assessment (Unmitigated Scenario)  
 Airport Tung Chung Link Project Environmental Impact Assessment

Calculation of Construction Noise Level (Unmitigated Scenario) (Construction Works Area C)  
 NAP: N08a - Fu Tung Estate Tung Ma House

Activity ID	Description of Activity	PME		No. of PME	SWL dB(A)/unit	% on time	Type of Noise Screening	Screening Correction dB(A)	Horizontal Distance, m	Distance Correction, dB(A)	Façade Correction dB(A)	CNL at NAP dB(A) from each PME	CNL at NAP dB(A)	
		Group <sup>[1]</sup>	Description											TM or other ref.
C1	Site Establishment	C1.A	Excavator/loader, wheeled/tracked	CNP 081	1	112	100%	N/A	0	344	-59	3	56	68
			Dump truck, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	70%	N/A	0	344	-59	3	48	
			Piling, vibrating hammer <sup>[2]</sup>	EPD	1	115	100%	N/A	0	344	-59	3	59	
			Breaker, excavator mounted (hydraulic)	CNP 028	1	122	100%	N/A	0	344	-59	3	66	
			Generator, standard	CNP 101	1	108	100%	N/A	0	344	-59	3	52	
			<b>CNL at NAP dB(A)</b>											
C2	Substructure	C2.A	Piling, large diameter bored, grab and chisel <sup>[3]</sup>	CNP 164	1	115	70%	N/A	0	353	-59	3	58	62
			Air Compressor, air flow > 10m <sup>3</sup> /min and < 30m <sup>3</sup> /min	CNP 002	1	102	70%	N/A	0	344	-59	3	45	
			Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	70%	N/A	0	344	-59	3	48	
			Excavator/loader, wheeled/tracked	CNP 081	1	112	100%	N/A	0	344	-59	3	56	
			Crane, mobile/barge mounted (diesel)	CNP 048	1	112	70%	N/A	0	344	-59	3	55	
			Generator, standard	CNP 101	1	108	100%	N/A	0	344	-59	3	52	
			Water pump (electric)	CNP 281	2	88	100%	N/A	0	344	-59	3	35	
		C2.B	Piling, large diameter bored, oscillator <sup>[3]</sup>	CNP 165	1	115	70%	N/A	0	353	-59	3	58	62
			Air Compressor, air flow > 10m <sup>3</sup> /min and < 30m <sup>3</sup> /min	CNP 002	1	102	70%	N/A	0	344	-59	3	45	
			Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	70%	N/A	0	344	-59	3	48	
			Excavator/loader, wheeled/tracked	CNP 081	1	112	100%	N/A	0	344	-59	3	56	
			Crane, mobile/barge mounted (diesel)	CNP 048	1	112	70%	N/A	0	344	-59	3	55	
			Generator, standard	CNP 101	1	108	100%	N/A	0	344	-59	3	52	
			Water pump (electric)	CNP 281	2	88	100%	N/A	0	344	-59	3	35	
		C2.C	Piling, large diameter bored, reverse circulation drill <sup>[3]</sup>	CNP 166	1	100	70%	N/A	0	353	-59	3	43	60
			Air Compressor, air flow > 10m <sup>3</sup> /min and < 30m <sup>3</sup> /min	CNP 002	1	102	70%	N/A	0	344	-59	3	45	
			Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	70%	N/A	0	344	-59	3	48	
			Excavator/loader, wheeled/tracked	CNP 081	1	112	100%	N/A	0	344	-59	3	56	
			Crane, mobile/barge mounted (diesel)	CNP 048	1	112	70%	N/A	0	344	-59	3	55	
			Generator, standard	CNP 101	1	108	100%	N/A	0	344	-59	3	52	
			Water pump (electric)	CNP 281	2	88	100%	N/A	0	344	-59	3	35	
		C2.D	Crane, mobile/barge mounted (diesel)	CNP 048	1	112	100%	N/A	0	344	-59	3	56	65
			Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	100%	N/A	0	344	-59	3	49	
			Excavator/loader, wheeled/tracked	CNP 081	2	112	100%	N/A	0	344	-59	3	59	
			Generator, standard	CNP 101	1	108	100%	N/A	0	344	-59	3	52	
			Water pump (electric)	CNP 281	2	88	100%	N/A	0	344	-59	3	35	
			Concrete pump, stationary/lorry mounted	CNP 047	1	109	100%	N/A	0	344	-59	3	53	
			Bar bender and cutter (electric)	CNP 021	1	90	100%	N/A	0	344	-59	3	34	
			Poker, vibratory, hand-held	CNP 170	2	113	100%	N/A	0	344	-59	3	60	
		Concrete lorry mixer	CNP 044	2	109	100%	N/A	0	344	-59	3	56		
<b>CNL at NAP dB(A)<sup>[4]</sup></b>												<b>65</b>		
C3	Superstructure	C3.A	Crane, mobile/barge mounted (diesel)	CNP 048	1	112	100%	N/A	0	344	-59	3	56	57
			Winch (petrol)	CNP 263	1	102	100%	N/A	0	344	-59	3	46	
		C3.B	Crane, mobile/barge mounted (diesel)	CNP 048	1	112	100%	N/A	0	344	-59	3	56	62
			Winch (electric)	CNP 262	1	95	100%	N/A	0	344	-59	3	39	
			Generator, standard	CNP 101	2	108	100%	N/A	0	344	-59	3	55	
			Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	100%	N/A	0	344	-59	3	49	
			Excavator/loader, wheeled/tracked	CNP 081	2	112	100%	N/A	0	344	-59	3	59	
		C3.C	Concrete pump, stationary/lorry mounted	CNP 047	1	109	100%	N/A	0	344	-59	3	53	63
			Concrete lorry mixer	CNP 044	1	109	100%	N/A	0	344	-59	3	53	
			Poker, vibratory, hand-held	CNP 170	2	113	100%	N/A	0	344	-59	3	60	
			Generator, standard	CNP 101	2	108	100%	N/A	0	344	-59	3	55	
		C3.D	Generator, standard	CNP 101	2	108	100%	N/A	0	344	-59	3	55	55
			Bar bender and cutter (electric)	CNP 021	1	90	100%	N/A	0	344	-59	3	34	
		C3.E	Asphalt paver	CNP 004	1	109	100%	N/A	0	344	-59	3	53	56
			Roller, vibratory	CNP 186	1	108	100%	N/A	0	344	-59	3	52	
<b>CNL at NAP dB(A)<sup>[4]</sup></b>												<b>63</b>		

Notes:  
 [1]: PMEs in each works group are assigned to sub-groups by considering the work process, such that each sub-group would not take place with others at the same time.  
 [2]: The SWL is referenced to EPD website: [https://www.epd.gov.hk/epd/sites/default/files/epd/english/application\\_for\\_licences/guidance/files/OtherSWLe.pdf](https://www.epd.gov.hk/epd/sites/default/files/epd/english/application_for_licences/guidance/files/OtherSWLe.pdf)  
 [3]: The PME will be used at the exact fixed locations as shown in Figure 4.3, the nearest fixed location have been used for this assessment.  
 [4]: The highest CNL at NAP among the groups is adopted.  
 [5]: The boundary of the construction works areas are shown in Figure 4.3.



Appendix 4.4 - Details of Construction Noise Assessment (Unmitigated Scenario)  
 Airport Tung Chung Link Project Environmental Impact Assessment

Calculation of Construction Noise Level (Unmitigated Scenario) (Construction Works Area D)  
 NAP: N08a - Fu Tung Estate Tung Ma House

Activity ID	Description of Activity	PME			No. of PME	SWL dB(A)/unit	% on time	Type of Noise Screening	Screening Correction dB(A)	Horizontal Distance, m	Distance Correction, dB(A)	Façade Correction dB(A)	CNL at NAP dB(A) from each PME	CNL at NAP dB(A)		
		Group <sup>[1]</sup>	Description	TM or other ref.												
D1	Site Establishment	D1.A	Excavator/loader, wheeled/tracked	CNP 081	1	112	100%	N/A	0	434	-61	3	54	66		
			Dump truck, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	70%	N/A	0	434	-61	3	46			
			Piling, vibrating hammer <sup>[2]</sup>	EPD	1	115	100%	N/A	0	434	-61	3	57			
			Breaker, excavator mounted (hydraulic)	CNP 028	1	122	100%	N/A	0	434	-61	3	64			
			Generator, standard	CNP 101	1	108	100%	N/A	0	434	-61	3	50			
			<b>CNL at NAP dB(A)</b>												<b>66</b>	
D2	Substructure	D2.A	Piling, large diameter bored, grab and chisel <sup>[3]</sup>	CNP 164	1	115	70%	N/A	0	434	-61	3	56	60		
			Air Compressor, air flow > 10m <sup>3</sup> /min and < 30m <sup>3</sup> /min	CNP 002	1	102	70%	N/A	0	434	-61	3	43			
			Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	70%	N/A	0	434	-61	3	46			
			Excavator/loader, wheeled/tracked	CNP 081	1	112	100%	N/A	0	434	-61	3	54			
			Crane, mobile/barge mounted (diesel)	CNP 048	1	112	70%	N/A	0	434	-61	3	53			
			Generator, standard	CNP 101	1	108	100%	N/A	0	434	-61	3	50			
			Water pump (electric)	CNP 281	2	88	100%	N/A	0	434	-61	3	33			
		D2.B	Piling, large diameter bored, oscillator <sup>[3]</sup>	CNP 165	1	115	70%	N/A	0	434	-61	3	56	60		
			Air Compressor, air flow > 10m <sup>3</sup> /min and < 30m <sup>3</sup> /min	CNP 002	1	102	70%	N/A	0	434	-61	3	43			
			Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	70%	N/A	0	434	-61	3	46			
			Excavator/loader, wheeled/tracked	CNP 081	1	112	100%	N/A	0	434	-61	3	54			
			Crane, mobile/barge mounted (diesel)	CNP 048	1	112	70%	N/A	0	434	-61	3	53			
			Generator, standard	CNP 101	1	108	100%	N/A	0	434	-61	3	50			
		D2.C	Water pump (electric)	CNP 281	2	88	100%	N/A	0	434	-61	3	33	58		
			Piling, large diameter bored, reverse circulation drill <sup>[3]</sup>	CNP 166	1	100	70%	N/A	0	434	-61	3	41			
			Air Compressor, air flow > 10m <sup>3</sup> /min and < 30m <sup>3</sup> /min	CNP 002	1	102	70%	N/A	0	434	-61	3	43			
			Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	70%	N/A	0	434	-61	3	46			
			Excavator/loader, wheeled/tracked	CNP 081	1	112	100%	N/A	0	434	-61	3	54			
			Crane, mobile/barge mounted (diesel)	CNP 048	1	112	70%	N/A	0	434	-61	3	53			
			Generator, standard	CNP 101	1	108	100%	N/A	0	434	-61	3	50			
		D2.D	Water pump (electric)	CNP 281	2	88	100%	N/A	0	434	-61	3	33	63		
			Crane, mobile/barge mounted (diesel)	CNP 048	1	112	100%	N/A	0	434	-61	3	54			
			Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	100%	N/A	0	434	-61	3	47			
			Excavator/loader, wheeled/tracked	CNP 081	2	112	100%	N/A	0	434	-61	3	57			
			Generator, standard	CNP 101	1	108	100%	N/A	0	434	-61	3	50			
			Water pump (electric)	CNP 281	2	88	100%	N/A	0	434	-61	3	33			
			Concrete pump, stationary/lorry mounted	CNP 047	1	109	100%	N/A	0	434	-61	3	51			
			Bar bender and cutter (electric)	CNP 021	1	90	100%	N/A	0	434	-61	3	32			
		D3	Superstructure	D3.A	Poker, vibratory, hand-held	CNP 170	2	113	100%	N/A	0	434	-61	3	58	61
					Generator, standard	CNP 101	2	108	100%	N/A	0	434	-61	3	53	
D3.B	Generator, standard			CNP 101	2	108	100%	N/A	0	434	-61	3	53	60		
	Bar bender and cutter (electric)			CNP 021	1	90	100%	N/A	0	434	-61	3	32			
	Asphalt paver			CNP 004	1	109	100%	N/A	0	434	-61	3	51			
D3.C	Roller, vibratory			CNP 186	1	108	100%	N/A	0	434	-61	3	50	54		
	Crane, mobile/barge mounted (diesel)			CNP 048	1	112	100%	N/A	0	434	-61	3	54			
	Winch (electric)			CNP 262	1	95	100%	N/A	0	434	-61	3	37			
	Generator, standard			CNP 101	2	108	100%	N/A	0	434	-61	3	53			
D3.D	Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>			EPD	1	105	100%	N/A	0	434	-61	3	47	55		
	Excavator/loader, wheeled/tracked	CNP 081	2	112	100%	N/A	0	434	-61	3	57					
D3.E	Concrete pump, stationary/lorry mounted	CNP 047	1	109	100%	N/A	0	434	-61	3	51	61				
	Concrete lorry mixer	CNP 044	1	109	100%	N/A	0	434	-61	3	51					
<b>CNL at NAP dB(A) <sup>[4]</sup></b>												<b>61</b>				

Notes:  
 [1]: PMEs in each works group are assigned to sub-groups by considering the work process, such that each sub-group would not take place with others at the same time.  
 [2]: The SWL is referenced to EPD website: [https://www.epd.gov.hk/epd/sites/default/files/epd/english/application\\_for\\_licences/guidance/files/OtherSWLe.pdf](https://www.epd.gov.hk/epd/sites/default/files/epd/english/application_for_licences/guidance/files/OtherSWLe.pdf)  
 [3]: The PME will be used at the exact fixed locations as shown in Figure 4.3, the nearest fixed location have been used for this assessment.  
 [4]: The highest CNL at NAP among the groups is adopted.  
 [5]: The boundary of the construction works areas are shown in Figure 4.3.

Appendix 4.4 - Details of Construction Noise Assessment (Unmitigated Scenario)  
 Airport Tung Chung Link Project Environmental Impact Assessment

Calculation of Construction Noise Level (Unmitigated Scenario) (Construction Works Area E)

NAP: N08a - Fu Tung Estate Tung Ma House

Activity ID	Description of Activity	PME			No. of PME	SWL dB(A)/unit	% on time	Type of Noise Screening	Screening Correction dB(A)	Horizontal Distance, m	Distance Correction, dB(A)	Façade Correction dB(A)	CNL at NAP dB(A) from each PME	CNL at NAP dB(A)
		Group <sup>[1]</sup>	Description	TM or other ref.										
E1	Site Establishment	E1.A	Excavator/loader, wheeled/tracked	CNP 081	1	112	100%	N/A	0	554	-63	3	52	63
			Generator, standard	CNP 101	1	108	100%	N/A	0	554	-63	3	48	
			Dump truck, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	70%	N/A	0	554	-63	3	44	
			Piling, vibrating hammer <sup>[2]</sup>	EPD	1	115	100%	N/A	0	554	-63	3	55	
			Breaker, excavator mounted (hydraulic)	CNP 028	1	122	100%	N/A	0	554	-63	3	62	
												<b>CNL at NAP dB(A)</b>	<b>63</b>	
E2	Substructure	E2.A	Piling, large diameter bored, reverse circulation drill <sup>[3]</sup>	CNP 166	1	100	70%	N/A	0	551	-63	3	39	62
			Piling, large diameter bored, oscillator <sup>[3]</sup>	CNP 165	1	115	70%	N/A	0	551	-63	3	54	
			Air Compressor, air flow > 10m <sup>3</sup> /min and < 30m <sup>3</sup> /min	CNP 002	1	102	100%	N/A	0	554	-63	3	42	
			Crane, mobile/barge mounted (diesel)	CNP 048	1	112	100%	N/A	0	554	-63	3	52	
			Generator, standard	CNP 101	1	108	100%	N/A	0	554	-63	3	48	
			Piling, large diameter bored, grab and chisel <sup>[3]</sup>	CNP 164	1	115	70%	N/A	0	551	-63	3	54	
			Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	100%	N/A	0	554	-63	3	45	
			Concrete pump, stationary/lorry mounted	CNP 047	1	109	100%	N/A	0	554	-63	3	49	
			Concrete lorry mixer	CNP 044	2	109	100%	N/A	0	554	-63	3	52	
			Bar bender and cutter (electric)	CNP 021	1	90	100%	N/A	0	554	-63	3	30	
			Excavator/loader, wheeled/tracked	CNP 081	1	112	100%	N/A	0	554	-63	3	52	
			Water pump (electric)	CNP 281	2	88	100%	N/A	0	554	-63	3	31	
Poker, vibratory, hand-held	CNP 170	2	113	100%	N/A	0	554	-63	3	56				
												<b>CNL at NAP dB(A)</b>	<b>62</b>	
E3	Superstructure	E3.A	Crane, mobile/barge mounted (diesel)	CNP 048	1	112	100%	N/A	0	554	-63	3	52	61
			Winch (petrol)	CNP 263	1	102	100%	N/A	0	554	-63	3	42	
			Winch (electric)	CNP 262	1	95	100%	N/A	0	554	-63	3	35	
			Generator, standard	CNP 101	2	108	100%	N/A	0	554	-63	3	51	
			Concrete pump, stationary/lorry mounted	CNP 047	1	109	100%	N/A	0	554	-63	3	49	
			Concrete lorry mixer	CNP 044	1	109	100%	N/A	0	554	-63	3	49	
			Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	100%	N/A	0	554	-63	3	45	
			Poker, vibratory, hand-held	CNP 170	2	113	100%	N/A	0	554	-63	3	56	
			Excavator/loader, wheeled/tracked	CNP 081	2	112	100%	N/A	0	554	-63	3	55	
			Bar bender and cutter (electric)	CNP 021	1	90	100%	N/A	0	554	-63	3	30	
			Asphalt paver	CNP 004	1	109	100%	N/A	0	554	-63	3	49	
			Roller, vibratory	CNP 186	1	108	100%	N/A	0	554	-63	3	48	
												<b>CNL at NAP dB(A)</b>	<b>61</b>	
E4	Landscape Softworks and Cycle Track	E4.A	Excavator/loader, wheeled/tracked	CNP 081	1	112	100%	N/A	0	554	-63	3	52	55
			Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	100%	N/A	0	554	-63	3	45	
			Generator, standard	CNP 101	1	108	100%	N/A	0	554	-63	3	48	
			Compactor, vibratory	CNP 050	1	105	100%	N/A	0	554	-63	3	45	
												<b>CNL at NAP dB(A)</b>	<b>55</b>	

Notes:

[1]: PMEs in each works group are assigned to sub-groups by considering the work process, such that each sub-group would not take place with others at the same time.

[2]: The SWL is referenced to EPD website: [https://www.epd.gov.hk/epd/sites/default/files/epd/english/application\\_for\\_licences/guidance/files/OtherSWLe.pdf](https://www.epd.gov.hk/epd/sites/default/files/epd/english/application_for_licences/guidance/files/OtherSWLe.pdf)

[3]: The PME will be used at the exact fixed locations as shown in Figure 4.3, the nearest fixed location have been used for this assessment.

[4]: The boundary of the construction works areas are shown in Figure 4.3.

Appendix 4.4 - Details of Construction Noise Assessment (Unmitigated Scenario)  
 Airport Tung Chung Link Project Environmental Impact Assessment

Calculation of Construction Noise Level (Unmitigated Scenario) (Construction Works Area F)  
 NAP: N08a - Fu Tung Estate Tung Ma House

Activity ID	Description of Activity	PME		No. of PME	SWL dB(A)/unit	% on time	Type of Noise Screening	Screening Correction dB(A)	Horizontal Distance, m	Distance Correction, dB(A)	Façade Correction dB(A)	CNL at NAP dB(A) from each PME	CNL at NAP dB(A)	
		Group <sup>[1]</sup>	Description											TM or other ref.
F1	Substructure	F1.A	Piling, large diameter bored, reverse circulation drill <sup>[2]</sup>	CNP 166	1	100	70%	N/A	0	619	-64	3	38	56
			Air Compressor, air flow > 10m <sup>3</sup> /min and < 30m <sup>3</sup> /min	CNP 002	1	102	70%	N/A	0	649	-64	3	39	
			Crane, mobile/barge mounted (diesel)	CNP 048	1	112	70%	N/A	0	649	-64	3	49	
			Excavator, wheeled/tracked	CNP 081	1	112	100%	N/A	0	649	-64	3	51	
			Generator, standard	CNP 101	2	108	100%	N/A	0	649	-64	3	50	
			Derrick barge	CNP 061	1	104	100%	N/A	0	649	-64	3	43	
			Tug boat	CNP 221	1	110	100%	N/A	0	649	-64	3	49	
			Water pump, submersible (electric)	CNP 283	2	85	100%	N/A	0	649	-64	3	27	
		F1.B	Piling, large diameter bored, oscillator <sup>[2]</sup>	CNP 165	1	115	70%	N/A	0	619	-64	3	53	58
			Air Compressor, air flow > 10m <sup>3</sup> /min and < 30m <sup>3</sup> /min	CNP 002	1	102	70%	N/A	0	649	-64	3	39	
			Crane, mobile/barge mounted (diesel)	CNP 048	1	112	70%	N/A	0	649	-64	3	49	
			Excavator, wheeled/tracked	CNP 081	1	112	100%	N/A	0	649	-64	3	51	
			Generator, standard	CNP 101	2	108	100%	N/A	0	649	-64	3	50	
			Derrick barge	CNP 061	1	104	100%	N/A	0	649	-64	3	43	
			Tug boat	CNP 221	1	110	100%	N/A	0	649	-64	3	49	
			Water pump, submersible (electric)	CNP 283	2	85	100%	N/A	0	649	-64	3	27	
		F1.C	Piling, large diameter bored, grab and chisel <sup>[2]</sup>	CNP 164	1	115	70%	N/A	0	619	-64	3	53	58
			Air Compressor, air flow > 10m <sup>3</sup> /min and < 30m <sup>3</sup> /min	CNP 002	1	102	70%	N/A	0	649	-64	3	39	
			Crane, mobile/barge mounted (diesel)	CNP 048	1	112	70%	N/A	0	649	-64	3	49	
			Excavator, wheeled/tracked	CNP 081	1	112	100%	N/A	0	649	-64	3	51	
			Generator, standard	CNP 101	2	108	100%	N/A	0	649	-64	3	50	
			Derrick barge	CNP 061	1	104	100%	N/A	0	649	-64	3	43	
			Tug boat	CNP 221	1	110	100%	N/A	0	649	-64	3	49	
			Water pump, submersible (electric)	CNP 283	2	85	100%	N/A	0	649	-64	3	27	
		F1.D	Crane, mobile/barge mounted (diesel)	CNP 048	1	112	100%	N/A	0	649	-64	3	51	58
			Excavator/loader, wheeled/tracked	CNP 081	1	112	100%	N/A	0	649	-64	3	51	
			Generator, standard	CNP 101	2	108	100%	N/A	0	649	-64	3	50	
			Water pump, submersible (electric)	CNP 283	2	85	100%	N/A	0	649	-64	3	27	
			Concrete pump, stationary/lorry mounted	CNP 047	1	109	100%	N/A	0	649	-64	3	48	
			Concrete lorry mixer	CNP 044	1	109	100%	N/A	0	649	-64	3	48	
			Poker, vibratory, hand-held	CNP 170	1	113	100%	N/A	0	649	-64	3	52	
			Bar bender and cutter (electric)	CNP 021	1	90	100%	N/A	0	649	-64	3	29	
			Derrick barge	CNP 061	1	104	100%	N/A	0	649	-64	3	43	
			Tug boat	CNP 221	1	110	100%	N/A	0	649	-64	3	49	
		<b>CNL at NAP dB(A) <sup>[3]</sup></b>												<b>58</b>
F2	Superstructure	F2.A	Crane, mobile/barge mounted (diesel)	CNP 048	1	112	100%	N/A	0	649	-64	3	51	60
			Derrick barge	CNP 061	1	104	100%	N/A	0	649	-64	3	40	
			Tug boat	CNP 221	1	110	100%	N/A	0	649	-64	3	40	
			Winch (petrol)	CNP 263	1	102	100%	N/A	0	649	-64	3	41	
			Winch (pneumatic)	CNP 261	1	110	100%	N/A	0	649	-64	3	49	
			Generator, standard	CNP 101	2	108	100%	N/A	0	649	-64	3	50	
			Concrete pump, stationary/lorry mounted	CNP 047	1	109	100%	N/A	0	649	-64	3	48	
			Concrete lorry mixer	CNP 044	1	109	100%	N/A	0	649	-64	3	48	
			Poker, vibratory, hand-held	CNP 170	2	113	100%	N/A	0	649	-64	3	55	
			Excavator/loader, wheeled/tracked	CNP 081	2	112	100%	N/A	0	649	-64	3	54	
			Bar bender and cutter (electric)	CNP 021	1	90	100%	N/A	0	649	-64	3	29	
			Asphalt paver	CNP 004	1	101	100%	N/A	0	649	-64	3	40	
			Roller, vibratory	CNP 186	1	101	100%	N/A	0	649	-64	3	40	
			<b>CNL at NAP dB(A)</b>											

Notes:  
 [1]: PMEs in each works group are assigned to sub-groups by considering the work process, such that each sub-group would not take place with others at the same time.  
 [2]: The PME will be used at the exact fixed locations as shown in Figure 4.3, the nearest fixed location have been used for this assessment.  
 [3]: The highest CNL at NAP among the groups is adopted.  
 [4]: The boundary of the construction works areas are shown in Figure 4.3.



Appendix 4.4 - Details of Construction Noise Assessment (Unmitigated Scenario)  
 Airport Tung Chung Link Project Environmental Impact Assessment

Calculation of Construction Noise Level (Unmitigated Scenario) (Construction Works Area A)  
 NAP: N09a - Tung Chung Crescent Block 5 (Point 1)

Activity ID	Description of Activity	PME		No. of PME	SWL dB(A)/unit	% on time	Type of Noise Screening	Screening Correction dB(A)	Horizontal Distance, m	Distance Correction, dB(A)	Façade Correction dB(A)	CNL at NAP dB(A) from each PME	CNL at NAP dB(A)	
		Group	Description											TM or other ref.
A1	Site Establishment	A1.A	Excavator/loader, wheeled/tracked	CNP 081	1	112	100%	N/A	0	210	-54	3	61	73
			Crane, mobile/barge mounted (diesel)	CNP 048	1	112	100%	N/A	0	210	-54	3	61	
			Generator, standard	CNP 101	1	108	100%	N/A	0	210	-54	3	57	
			Breaker, excavator mounted (hydraulic)	CNP 028	1	122	100%	N/A	0	210	-54	3	71	
			Piling, vibrating hammer <sup>[1]</sup>	EPD	1	115	100%	N/A	0	210	-54	3	64	
			Dump truck, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[1]</sup>	EPD	1	105	70%	N/A	0	210	-54	3	52	
			Concrete pump, stationary/lorry mounted	CNP 047	1	109	100%	N/A	0	210	-54	3	58	
			Concrete lorry mixer	CNP 044	1	109	100%	N/A	0	210	-54	3	58	
			Poker, vibratory, hand-held	CNP 170	1	113	100%	N/A	0	210	-54	3	62	
			Asphalt paver	CNP 004	1	109	100%	N/A	0	210	-54	3	58	
			Roller, vibratory	CNP 186	1	108	100%	N/A	0	210	-54	3	57	
			Water pump (electric)	CNP 281	1	88	100%	N/A	0	210	-54	3	37	
<b>CNL at NAP dB(A)</b>												<b>73</b>		

Notes:

[1]: The SWL is referenced to EPD website: [https://www.epd.gov.hk/epd/sites/default/files/epd/english/application\\_for\\_licences/guidance/files/OtherSWLe.pdf](https://www.epd.gov.hk/epd/sites/default/files/epd/english/application_for_licences/guidance/files/OtherSWLe.pdf)

[2]: The boundary of the construction works areas are shown in Figure 4.3.

Appendix 4.4 - Details of Construction Noise Assessment (Unmitigated Scenario)  
 Airport Tung Chung Link Project Environmental Impact Assessment

Calculation of Construction Noise Level (Unmitigated Scenario) (Construction Works Area B)  
 NAP: N09a - Tung Chung Crescent Block 5 (Point 1)

Activity ID	Description of Activity	PME		No. of PME	SWL dB(A)/unit	% on time	Type of Noise Screening	Screening Correction dB(A)	Horizontal Distance, m	Distance Correction, dB(A)	Façade Correction dB(A)	CNL at NAP dB(A) from each PME	CNL at NAP dB(A)	
		Group <sup>[1]</sup>	Description											TM or other ref.
B1	Site Establishment	B1.A	Excavator/loader, wheeled/tracked	CNP 081	2	112	100%	N/A	0	179	-53	3	65	74
			Crane, mobile/barge mounted (diesel)	CNP 048	1	112	100%	N/A	0	179	-53	3	62	
			Generator, standard	CNP 101	1	108	100%	N/A	0	179	-53	3	58	
			Breaker, excavator mounted (hydraulic)	CNP 028	1	122	100%	N/A	0	179	-53	3	72	
			Piling, vibrating hammer <sup>[2]</sup>	EPD	1	115	100%	N/A	0	179	-53	3	65	
			Dump truck, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	70%	N/A	0	179	-53	3	53	
			Water pump (electric)	CNP 281	1	88	100%	N/A	0	179	-53	3	38	
<b>CNL at NAP dB(A)</b>												<b>74</b>		
B2	Substructure	B2.A	Piling, large diameter bored, grab and chisel <sup>[3]</sup>	CNP 164	1	115	70%	N/A	0	188	-53	3	63	69
			Air Compressor, air flow > 10m <sup>3</sup> /min and < 30m <sup>3</sup> /min	CNP 002	1	102	70%	N/A	0	179	-53	3	50	
			Crane, mobile/barge mounted (diesel)	CNP 048	1	112	70%	N/A	0	179	-53	3	60	
			Generator, standard	CNP 101	1	108	100%	N/A	0	179	-53	3	58	
			Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	70%	N/A	0	179	-53	3	53	
			Excavator/loader, wheeled/tracked	CNP 081	2	112	100%	N/A	0	179	-53	3	65	
			Water pump (electric)	CNP 281	2	88	100%	N/A	0	179	-53	3	41	
		B2.B	Piling, large diameter bored, oscillator <sup>[3]</sup>	CNP 165	1	115	70%	N/A	0	188	-53	3	63	69
			Air Compressor, air flow > 10m <sup>3</sup> /min and < 30m <sup>3</sup> /min	CNP 002	1	102	70%	N/A	0	179	-53	3	50	
			Crane, mobile/barge mounted (diesel)	CNP 048	1	112	70%	N/A	0	179	-53	3	60	
			Generator, standard	CNP 101	1	108	100%	N/A	0	179	-53	3	58	
			Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	70%	N/A	0	179	-53	3	53	
			Excavator/loader, wheeled/tracked	CNP 081	2	112	100%	N/A	0	179	-53	3	65	
			Water pump (electric)	CNP 281	2	88	100%	N/A	0	179	-53	3	41	
		B2.C	Piling, large diameter bored, reverse circulation drill <sup>[3]</sup>	CNP 166	1	100	70%	N/A	0	188	-53	3	48	67
			Air Compressor, air flow > 10m <sup>3</sup> /min and < 30m <sup>3</sup> /min	CNP 002	1	102	70%	N/A	0	179	-53	3	50	
			Crane, mobile/barge mounted (diesel)	CNP 048	1	112	70%	N/A	0	179	-53	3	60	
			Generator, standard	CNP 101	1	108	100%	N/A	0	179	-53	3	58	
			Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	70%	N/A	0	179	-53	3	53	
			Excavator/loader, wheeled/tracked	CNP 081	2	112	100%	N/A	0	179	-53	3	65	
			Water pump (electric)	CNP 281	2	88	100%	N/A	0	179	-53	3	41	
		B2.D	Crane, mobile/barge mounted (diesel)	CNP 048	1	112	100%	N/A	0	179	-53	3	62	71
			Generator, standard	CNP 101	1	108	100%	N/A	0	179	-53	3	58	
			Concrete pump, stationary/lorry mounted	CNP 047	1	109	100%	N/A	0	179	-53	3	59	
			Concrete lorry mixer	CNP 044	2	109	100%	N/A	0	179	-53	3	62	
			Poker, vibratory, hand-held	CNP 170	2	113	100%	N/A	0	179	-53	3	66	
			Bar bender and cutter (electric)	CNP 021	1	90	100%	N/A	0	179	-53	3	40	
			Excavator/loader, wheeled/tracked	CNP 081	2	112	100%	N/A	0	179	-53	3	65	
Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD		1	105	100%	N/A	0	179	-53	3	55			
Water pump (electric)	CNP 281		2	88	100%	N/A	0	179	-53	3	41			
<b>CNL at NAP dB(A) <sup>[5]</sup></b>												<b>71</b>		
B3	Superstructure	B3.A	Crane, mobile/barge mounted (diesel)	CNP 048	1	112	100%	N/A	0	179	-53	3	62	71
			Generator, standard	CNP 101	2	108	100%	N/A	0	179	-53	3	61	
			Concrete pump, stationary/lorry mounted	CNP 047	1	109	100%	N/A	0	179	-53	3	59	
			Concrete lorry mixer	CNP 044	1	109	100%	N/A	0	179	-53	3	59	
			Poker, vibratory, hand-held	CNP 170	2	113	100%	N/A	0	179	-53	3	66	
			Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	100%	N/A	0	179	-53	3	55	
			Excavator/loader, wheeled/tracked	CNP 081	2	112	100%	N/A	0	179	-53	3	65	
			Bar bender and cutter (electric)	CNP 021	1	90	100%	N/A	0	179	-53	3	40	
			Asphalt paver	CNP 004	1	109	100%	N/A	0	179	-53	3	59	
			Roller, vibratory	CNP 186	1	108	100%	N/A	0	179	-53	3	58	
<b>CNL at NAP dB(A)</b>												<b>71</b>		
B4	Building Service and Finishes	B4.A	Generator, standard	CNP 101	1	108	100%	N/A	0	179	-53	3	58	62
			Cherry picker <sup>[4]</sup>	Ref: AEIAR-173/2013	2	107	100%	N/A	0	179	-53	3	60	
<b>CNL at NAP dB(A)</b>												<b>62</b>		

Notes:  
 [1]: PMEs in each works group are assigned to sub-groups by considering the work process, such that each sub-group would not take place with others at the same time.  
 [2]: The SWL is referenced to EPD website: [https://www.epd.gov.hk/epd/sites/default/files/epd/english/application\\_for\\_licences/guidance/files/OtherSWLe.pdf](https://www.epd.gov.hk/epd/sites/default/files/epd/english/application_for_licences/guidance/files/OtherSWLe.pdf)  
 [3]: The PME will be used at the exact fixed locations as shown in Figure 4.3, the nearest fixed location have been used for this assessment.  
 [4]: The SWL of the PME is referenced to the EIA report of the Tseung Kwan O – Lam Tin Tunnel and Associated Works (Register No. AEIAR-173/2013).  
 [5]: The highest CNL at NAP among the groups is adopted.  
 [6]: The boundary of the construction works areas are shown in Figure 4.3.

Appendix 4.4 - Details of Construction Noise Assessment (Unmitigated Scenario)  
 Airport Tung Chung Link Project Environmental Impact Assessment

Calculation of Construction Noise Level (Unmitigated Scenario) (Construction Works Area C)  
 NAP: N09a - Tung Chung Crescent Block 5 (Point 1)

Activity ID	Description of Activity	PME			No. of PME	SWL dB(A)/unit	% on time	Type of Noise Screening	Screening Correction dB(A)	Horizontal Distance, m	Distance Correction, dB(A)	Façade Correction dB(A)	CNL at NAP dB(A) from each PME	CNL at NAP dB(A)
		Group <sup>[1]</sup>	Description	TM or other ref.										
C1	Site Establishment	C1.A	Excavator/loader, wheeled/tracked	CNP 081	1	112	100%	N/A	0	216	-55	3	60	72
			Dump truck, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	70%	N/A	0	216	-55	3	52	
			Piling, vibrating hammer <sup>[3]</sup>	EPD	1	115	100%	N/A	0	216	-55	3	63	
			Breaker, excavator mounted (hydraulic)	CNP 028	1	122	100%	N/A	0	216	-55	3	70	
			Generator, standard	CNP 101	1	108	100%	N/A	0	216	-55	3	56	
												<b>CNL at NAP dB(A)</b>	<b>72</b>	
C2	Substructure	C2.A	Piling, large diameter bored, grab and chisel <sup>[3]</sup>	CNP 164	1	115	70%	N/A	0	211	-54	3	62	66
			Air Compressor, air flow > 10m <sup>3</sup> /min and < 30m <sup>3</sup> /min	CNP 002	1	102	70%	N/A	0	216	-55	3	49	
			Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	70%	N/A	0	216	-55	3	52	
			Excavator/loader, wheeled/tracked	CNP 081	1	112	100%	N/A	0	216	-55	3	60	
			Crane, mobile/barge mounted (diesel)	CNP 048	1	112	70%	N/A	0	216	-55	3	59	
			Generator, standard	CNP 101	1	108	100%	N/A	0	216	-55	3	56	
			Water pump (electric)	CNP 281	2	88	100%	N/A	0	216	-55	3	39	
		C2.B	Piling, large diameter bored, oscillator <sup>[3]</sup>	CNP 165	1	115	70%	N/A	0	211	-54	3	62	66
			Air Compressor, air flow > 10m <sup>3</sup> /min and < 30m <sup>3</sup> /min	CNP 002	1	102	70%	N/A	0	216	-55	3	49	
			Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	70%	N/A	0	216	-55	3	52	
			Excavator/loader, wheeled/tracked	CNP 081	1	112	100%	N/A	0	216	-55	3	60	
			Crane, mobile/barge mounted (diesel)	CNP 048	1	112	70%	N/A	0	216	-55	3	59	
			Generator, standard	CNP 101	1	108	100%	N/A	0	216	-55	3	56	
			Water pump (electric)	CNP 281	2	88	100%	N/A	0	216	-55	3	39	
		C2.C	Piling, large diameter bored, reverse circulation drill <sup>[3]</sup>	CNP 166	1	100	70%	N/A	0	211	-54	3	47	64
			Air Compressor, air flow > 10m <sup>3</sup> /min and < 30m <sup>3</sup> /min	CNP 002	1	102	70%	N/A	0	216	-55	3	49	
			Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	70%	N/A	0	216	-55	3	52	
			Excavator/loader, wheeled/tracked	CNP 081	1	112	100%	N/A	0	216	-55	3	60	
			Crane, mobile/barge mounted (diesel)	CNP 048	1	112	70%	N/A	0	216	-55	3	59	
			Generator, standard	CNP 101	1	108	100%	N/A	0	216	-55	3	56	
			Water pump (electric)	CNP 281	2	88	100%	N/A	0	216	-55	3	39	
		C2.D	Crane, mobile/barge mounted (diesel)	CNP 048	1	112	100%	N/A	0	216	-55	3	60	69
			Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	100%	N/A	0	216	-55	3	53	
			Excavator/loader, wheeled/tracked	CNP 081	2	112	100%	N/A	0	216	-55	3	63	
			Generator, standard	CNP 101	1	108	100%	N/A	0	216	-55	3	56	
			Water pump (electric)	CNP 281	2	88	100%	N/A	0	216	-55	3	39	
			Concrete pump, stationary/lorry mounted	CNP 047	1	109	100%	N/A	0	216	-55	3	57	
			Bar bender and cutter (electric)	CNP 021	1	90	100%	N/A	0	216	-55	3	38	
Poker, vibratory, hand-held	CNP 170		2	113	100%	N/A	0	216	-55	3	64			
Concrete lorry mixer	CNP 044	2	109	100%	N/A	0	216	-55	3	60				
												<b>CNL at NAP dB(A) <sup>[4]</sup></b>	<b>69</b>	
C3	Superstructure	C3.A	Crane, mobile/barge mounted (diesel)	CNP 048	1	112	100%	N/A	0	216	-55	3	60	61
			Winch (petrol)	CNP 263	1	102	100%	N/A	0	216	-55	3	50	
		C3.B	Crane, mobile/barge mounted (diesel)	CNP 048	1	112	100%	N/A	0	216	-55	3	60	66
			Winch (electric)	CNP 262	1	95	100%	N/A	0	216	-55	3	43	
			Generator, standard	CNP 101	2	108	100%	N/A	0	216	-55	3	59	
			Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	100%	N/A	0	216	-55	3	53	
			Excavator/loader, wheeled/tracked	CNP 081	2	112	100%	N/A	0	216	-55	3	63	
		C3.C	Concrete pump, stationary/lorry mounted	CNP 047	1	109	100%	N/A	0	216	-55	3	57	67
			Concrete lorry mixer	CNP 044	1	109	100%	N/A	0	216	-55	3	57	
			Poker, vibratory, hand-held	CNP 170	2	113	100%	N/A	0	216	-55	3	64	
			Generator, standard	CNP 101	2	108	100%	N/A	0	216	-55	3	59	
		C3.D	Generator, standard	CNP 101	2	108	100%	N/A	0	216	-55	3	59	59
			Bar bender and cutter (electric)	CNP 021	1	90	100%	N/A	0	216	-55	3	38	
		C3.E	Asphalt paver	CNP 004	1	109	100%	N/A	0	216	-55	3	57	60
			Roller, vibratory	CNP 186	1	108	100%	N/A	0	216	-55	3	56	
												<b>CNL at NAP dB(A) <sup>[4]</sup></b>	<b>67</b>	

Notes:  
 [1]: PMEs in each works group are assigned to sub-groups by considering the work process, such that each sub-group would not take place with others at the same time.  
 [2]: The SWL is referenced to EPD website: [https://www.epd.gov.hk/epd/sites/default/files/epd/english/application\\_for\\_licences/guidance/files/OtherSWLe.pdf](https://www.epd.gov.hk/epd/sites/default/files/epd/english/application_for_licences/guidance/files/OtherSWLe.pdf)  
 [3]: The PME will be used at the exact fixed locations as shown in Figure 4.3, the nearest fixed location have been used for this assessment.  
 [4]: The highest CNL at NAP among the groups is adopted.  
 [5]: The boundary of the construction works areas are shown in Figure 4.3.

Appendix 4.4 - Details of Construction Noise Assessment (Unmitigated Scenario)  
 Airport Tung Chung Link Project Environmental Impact Assessment

Calculation of Construction Noise Level (Unmitigated Scenario) (Construction Works Area D)  
 NAP: N09a - Tung Chung Crescent Block 5 (Point 1)

Activity ID	Description of Activity	PME			No. of PME	SWL dB(A)/unit	% on time	Type of Noise Screening	Screening Correction dB(A)	Horizontal Distance, m	Distance Correction, dB(A)	Façade Correction dB(A)	CNL at NAP dB(A) from each PME	CNL at NAP dB(A)
		Group <sup>[1]</sup>	Description	TM or other ref.										
D1	Site Establishment	D1.A	Excavator/loader, wheeled/tracked	CNP 081	1	112	100%	N/A	0	284	-57	3	58	69
			Dump truck, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	70%	N/A	0	284	-57	3	49	
			Piling, vibrating hammer <sup>[2]</sup>	EPD	1	115	100%	N/A	0	284	-57	3	61	
			Breaker, excavator mounted (hydraulic)	CNP 028	1	122	100%	N/A	0	284	-57	3	68	
			Generator, standard	CNP 101	1	108	100%	N/A	0	284	-57	3	54	
			<b>CNL at NAP dB(A)</b>											
D2	Substructure	D2.A	Piling, large diameter bored, grab and chisel <sup>[3]</sup>	CNP 164	1	115	70%	N/A	0	275	-57	3	60	64
			Air Compressor, air flow > 10m <sup>3</sup> /min and < 30m <sup>3</sup> /min	CNP 002	1	102	70%	N/A	0	284	-57	3	46	
			Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	70%	N/A	0	284	-57	3	49	
			Excavator/loader, wheeled/tracked	CNP 081	1	112	100%	N/A	0	284	-57	3	58	
			Crane, mobile/barge mounted (diesel)	CNP 048	1	112	70%	N/A	0	284	-57	3	56	
			Generator, standard	CNP 101	1	108	100%	N/A	0	284	-57	3	54	
			Water pump (electric)	CNP 281	2	88	100%	N/A	0	284	-57	3	37	
		D2.B	Piling, large diameter bored, oscillator <sup>[3]</sup>	CNP 165	1	115	70%	N/A	0	275	-57	3	60	64
			Air Compressor, air flow > 10m <sup>3</sup> /min and < 30m <sup>3</sup> /min	CNP 002	1	102	70%	N/A	0	284	-57	3	46	
			Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	70%	N/A	0	284	-57	3	49	
			Excavator/loader, wheeled/tracked	CNP 081	1	112	100%	N/A	0	284	-57	3	58	
			Crane, mobile/barge mounted (diesel)	CNP 048	1	112	70%	N/A	0	284	-57	3	56	
			Generator, standard	CNP 101	1	108	100%	N/A	0	284	-57	3	54	
			Water pump (electric)	CNP 281	2	88	100%	N/A	0	284	-57	3	37	
		D2.C	Piling, large diameter bored, reverse circulation drill <sup>[3]</sup>	CNP 166	1	100	70%	N/A	0	275	-57	3	45	62
			Air Compressor, air flow > 10m <sup>3</sup> /min and < 30m <sup>3</sup> /min	CNP 002	1	102	70%	N/A	0	284	-57	3	46	
			Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	70%	N/A	0	284	-57	3	49	
			Excavator/loader, wheeled/tracked	CNP 081	1	112	100%	N/A	0	284	-57	3	58	
			Crane, mobile/barge mounted (diesel)	CNP 048	1	112	70%	N/A	0	284	-57	3	56	
			Generator, standard	CNP 101	1	108	100%	N/A	0	284	-57	3	54	
			Water pump (electric)	CNP 281	2	88	100%	N/A	0	284	-57	3	37	
		D2.D	Crane, mobile/barge mounted (diesel)	CNP 048	1	112	100%	N/A	0	284	-57	3	58	67
			Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	100%	N/A	0	284	-57	3	51	
			Excavator/loader, wheeled/tracked	CNP 081	2	112	100%	N/A	0	284	-57	3	61	
			Generator, standard	CNP 101	1	108	100%	N/A	0	284	-57	3	54	
			Water pump (electric)	CNP 281	2	88	100%	N/A	0	284	-57	3	37	
			Concrete pump, stationary/lorry mounted	CNP 047	1	109	100%	N/A	0	284	-57	3	55	
			Bar bender and cutter (electric)	CNP 021	1	90	100%	N/A	0	284	-57	3	36	
			Poker, vibratory, hand-held	CNP 170	2	113	100%	N/A	0	284	-57	3	62	
		Concrete lorry mixer	CNP 044	2	109	100%	N/A	0	284	-57	3	58		
<b>CNL at NAP dB(A) <sup>[4]</sup></b>												<b>67</b>		
D3	Superstructure	D3.A	Crane, mobile/barge mounted (diesel)	CNP 048	1	112	100%	N/A	0	284	-57	3	58	58
			Winch (petrol)	CNP 263	1	102	100%	N/A	0	284	-57	3	48	
		D3.B	Crane, mobile/barge mounted (diesel)	CNP 048	1	112	100%	N/A	0	284	-57	3	58	64
			Winch (electric)	CNP 262	1	95	100%	N/A	0	284	-57	3	41	
			Generator, standard	CNP 101	2	108	100%	N/A	0	284	-57	3	57	
			Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	100%	N/A	0	284	-57	3	51	
			Excavator/loader, wheeled/tracked	CNP 081	2	112	100%	N/A	0	284	-57	3	61	
		D3.C	Concrete pump, stationary/lorry mounted	CNP 047	1	109	100%	N/A	0	284	-57	3	55	64
			Concrete lorry mixer	CNP 044	1	109	100%	N/A	0	284	-57	3	55	
			Poker, vibratory, hand-held	CNP 170	2	113	100%	N/A	0	284	-57	3	62	
			Generator, standard	CNP 101	2	108	100%	N/A	0	284	-57	3	57	
		D3.D	Generator, standard	CNP 101	2	108	100%	N/A	0	284	-57	3	57	57
			Bar bender and cutter (electric)	CNP 021	1	90	100%	N/A	0	284	-57	3	36	
		D3.E	Asphalt paver	CNP 004	1	109	100%	N/A	0	284	-57	3	55	58
			Roller, vibratory	CNP 186	1	108	100%	N/A	0	284	-57	3	54	
<b>CNL at NAP dB(A) <sup>[4]</sup></b>												<b>64</b>		

Notes:  
 [1]: PMEs in each works group are assigned to sub-groups by considering the work process, such that each sub-group would not take place with others at the same time.  
 [2]: The SWL is referenced to EPD website: [https://www.epd.gov.hk/epd/sites/default/files/epd/english/application\\_for\\_licences/guidance/files/OtherSWLe.pdf](https://www.epd.gov.hk/epd/sites/default/files/epd/english/application_for_licences/guidance/files/OtherSWLe.pdf)  
 [3]: The PME will be used at the exact fixed locations as shown in Figure 4.3, the nearest fixed location have been used for this assessment.  
 [4]: The highest CNL at NAP among the groups is adopted.  
 [5]: The boundary of the construction works areas are shown in Figure 4.3.



**Appendix 4.4 - Details of Construction Noise Assessment (Unmitigated Scenario)**  
**Airport Tung Chung Link Project Environmental Impact Assessment**

**Calculation of Construction Noise Level (Unmitigated Scenario) (Construction Works Area E)**

**NAP: N09a - Tung Chung Crescent Block 5 (Point 1)**

Activity ID	Description of Activity	PME			No. of PME	SWL dB(A)/unit	% on time	Type of Noise Screening	Screening Correction dB(A)	Horizontal Distance, m	Distance Correction, dB(A)	Façade Correction dB(A)	CNL at NAP dB(A) from each PME	CNL at NAP dB(A)
		Group <sup>[1]</sup>	Description	TM or other ref.										
E1	Site Establishment	E1.A	Excavator/loader, wheeled/tracked	CNP 081	1	112	100%	N/A	0	361	-59	3	56	67
			Generator, standard	CNP 101	1	108	100%	N/A	0	361	-59	3	52	
			Dump truck, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	70%	N/A	0	361	-59	3	47	
			Piling, vibrating hammer <sup>[2]</sup>	EPD	1	115	100%	N/A	0	361	-59	3	59	
			Breaker, excavator mounted (hydraulic)	CNP 028	1	122	100%	N/A	0	361	-59	3	66	
												<b>CNL at NAP dB(A)</b>	<b>67</b>	
E2	Substructure	E2.A	Piling, large diameter bored, reverse circulation drill <sup>[3]</sup>	CNP 166	1	100	70%	N/A	0	373	-59	3	42	66
			Piling, large diameter bored, oscillator <sup>[3]</sup>	CNP 165	1	115	70%	N/A	0	373	-59	3	57	
			Air Compressor, air flow > 10m <sup>3</sup> /min and < 30m <sup>3</sup> /min	CNP 002	1	102	100%	N/A	0	361	-59	3	46	
			Crane, mobile/barge mounted (diesel)	CNP 048	1	112	100%	N/A	0	361	-59	3	56	
			Generator, standard	CNP 101	1	108	100%	N/A	0	361	-59	3	52	
			Piling, large diameter bored, grab and chisel <sup>[3]</sup>	CNP 164	1	115	70%	N/A	0	373	-59	3	57	
			Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	100%	N/A	0	361	-59	3	49	
			Concrete pump, stationary/lorry mounted	CNP 047	1	109	100%	N/A	0	361	-59	3	53	
			Concrete lorry mixer	CNP 044	2	109	100%	N/A	0	361	-59	3	56	
			Bar bender and cutter (electric)	CNP 021	1	90	100%	N/A	0	361	-59	3	34	
			Excavator/loader, wheeled/tracked	CNP 081	1	112	100%	N/A	0	361	-59	3	56	
			Water pump (electric)	CNP 281	2	88	100%	N/A	0	361	-59	3	35	
Poker, vibratory, hand-held	CNP 170	2	113	100%	N/A	0	361	-59	3	60				
												<b>CNL at NAP dB(A)</b>	<b>66</b>	
E3	Superstructure	E3.A	Crane, mobile/barge mounted (diesel)	CNP 048	1	112	100%	N/A	0	361	-59	3	56	65
			Winch (petrol)	CNP 263	1	102	100%	N/A	0	361	-59	3	46	
			Winch (electric)	CNP 262	1	95	100%	N/A	0	361	-59	3	39	
			Generator, standard	CNP 101	2	108	100%	N/A	0	361	-59	3	55	
			Concrete pump, stationary/lorry mounted	CNP 047	1	109	100%	N/A	0	361	-59	3	53	
			Concrete lorry mixer	CNP 044	1	109	100%	N/A	0	361	-59	3	53	
			Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	100%	N/A	0	361	-59	3	49	
			Poker, vibratory, hand-held	CNP 170	2	113	100%	N/A	0	361	-59	3	60	
			Excavator/loader, wheeled/tracked	CNP 081	2	112	100%	N/A	0	361	-59	3	59	
			Bar bender and cutter (electric)	CNP 021	1	90	100%	N/A	0	361	-59	3	34	
			Asphalt paver	CNP 004	1	109	100%	N/A	0	361	-59	3	53	
			Roller, vibratory	CNP 186	1	108	100%	N/A	0	361	-59	3	52	
												<b>CNL at NAP dB(A)</b>	<b>65</b>	
E4	Landscape Softworks and Cycle Track	E4.A	Excavator/loader, wheeled/tracked	CNP 081	1	112	100%	N/A	0	361	-59	3	56	58
			Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	100%	N/A	0	361	-59	3	49	
			Generator, standard	CNP 101	1	108	100%	N/A	0	361	-59	3	52	
			Compactor, vibratory	CNP 050	1	105	100%	N/A	0	361	-59	3	49	
												<b>CNL at NAP dB(A)</b>	<b>58</b>	

**Notes:**

[1]: PMEs in each works group are assigned to sub-groups by considering the work process, such that each sub-group would not take place with others at the same time.

[2]: The SWL is referenced to EPD website: [https://www.epd.gov.hk/epd/sites/default/files/epd/english/application\\_for\\_licences/guidance/files/OtherSWLe.pdf](https://www.epd.gov.hk/epd/sites/default/files/epd/english/application_for_licences/guidance/files/OtherSWLe.pdf)

[3]: The PME will be used at the exact fixed locations as shown in Figure 4.3, the nearest fixed location have been used for this assessment.

[4]: The boundary of the construction works areas are shown in Figure 4.3.

Appendix 4.4 - Details of Construction Noise Assessment (Unmitigated Scenario)  
 Airport Tung Chung Link Project Environmental Impact Assessment

Calculation of Construction Noise Level (Unmitigated Scenario) (Construction Works Area F)  
 NAP: N09a - Tung Chung Crescent Block 5 (Point 1)

Activity ID	Description of Activity	PME		No. of PME	SWL dB(A)/unit	% on time	Type of Noise Screening	Screening Correction dB(A)	Horizontal Distance, m	Distance Correction, dB(A)	Façade Correction dB(A)	CNL at NAP dB(A) from each PME	CNL at NAP dB(A)	
		Group <sup>[1]</sup>	Description											TM or other ref.
F1	Substructure	F1.A	Piling, large diameter bored, reverse circulation drill <sup>[2]</sup>	CNP 166	1	100	70%	N/A	0	432	-61	3	41	59
			Air Compressor, air flow > 10m <sup>3</sup> /min and < 30m <sup>3</sup> /min	CNP 002	1	102	70%	N/A	0	458	-61	3	42	
			Crane, mobile/barge mounted (diesel)	CNP 048	1	112	70%	N/A	0	458	-61	3	52	
			Excavator, wheeled/tracked	CNP 081	1	112	100%	N/A	0	458	-61	3	54	
			Generator, standard	CNP 101	2	108	100%	N/A	0	458	-61	3	53	
			Derrick barge	CNP 061	1	104	100%	N/A	0	458	-61	3	46	
			Tug boat	CNP 221	1	110	100%	N/A	0	458	-61	3	52	
			Water pump, submersible (electric)	CNP 283	2	85	100%	N/A	0	458	-61	3	30	
		F1.B	Piling, large diameter bored, oscillator <sup>[2]</sup>	CNP 165	1	115	70%	N/A	0	432	-61	3	56	61
			Air Compressor, air flow > 10m <sup>3</sup> /min and < 30m <sup>3</sup> /min	CNP 002	1	102	70%	N/A	0	458	-61	3	42	
			Crane, mobile/barge mounted (diesel)	CNP 048	1	112	70%	N/A	0	458	-61	3	52	
			Excavator, wheeled/tracked	CNP 081	1	112	100%	N/A	0	458	-61	3	54	
			Generator, standard	CNP 101	2	108	100%	N/A	0	458	-61	3	53	
			Derrick barge	CNP 061	1	104	100%	N/A	0	458	-61	3	46	
			Tug boat	CNP 221	1	110	100%	N/A	0	458	-61	3	52	
			Water pump, submersible (electric)	CNP 283	2	85	100%	N/A	0	458	-61	3	30	
		F1.C	Piling, large diameter bored, grab and chisel <sup>[2]</sup>	CNP 164	1	115	70%	N/A	0	432	-61	3	56	61
			Air Compressor, air flow > 10m <sup>3</sup> /min and < 30m <sup>3</sup> /min	CNP 002	1	102	70%	N/A	0	458	-61	3	42	
			Crane, mobile/barge mounted (diesel)	CNP 048	1	112	70%	N/A	0	458	-61	3	52	
			Excavator, wheeled/tracked	CNP 081	1	112	100%	N/A	0	458	-61	3	54	
			Generator, standard	CNP 101	2	108	100%	N/A	0	458	-61	3	53	
			Derrick barge	CNP 061	1	104	100%	N/A	0	458	-61	3	46	
			Tug boat	CNP 221	1	110	100%	N/A	0	458	-61	3	52	
			Water pump, submersible (electric)	CNP 283	2	85	100%	N/A	0	458	-61	3	30	
		F1.D	Crane, mobile/barge mounted (diesel)	CNP 048	1	112	100%	N/A	0	458	-61	3	54	61
			Excavator/loader, wheeled/tracked	CNP 081	1	112	100%	N/A	0	458	-61	3	54	
			Generator, standard	CNP 101	2	108	100%	N/A	0	458	-61	3	53	
			Water pump, submersible (electric)	CNP 283	2	85	100%	N/A	0	458	-61	3	30	
			Concrete pump, stationary/lorry mounted	CNP 047	1	109	100%	N/A	0	458	-61	3	51	
			Concrete lorry mixer	CNP 044	1	109	100%	N/A	0	458	-61	3	51	
			Poker, vibratory, hand-held	CNP 170	1	113	100%	N/A	0	458	-61	3	55	
			Bar bender and cutter (electric)	CNP 021	1	90	100%	N/A	0	458	-61	3	32	
Derrick barge	CNP 061		1	104	100%	N/A	0	458	-61	3	46			
Tug boat	CNP 221		1	110	100%	N/A	0	458	-61	3	52			
<b>CNL at NAP dB(A) <sup>[3]</sup></b>												<b>61</b>		
F2	Superstructure	F2.A	Crane, mobile/barge mounted (diesel)	CNP 048	1	112	100%	N/A	0	458	-61	3	54	63
			Derrick barge	CNP 061	1	104	100%	N/A	0	458	-61	3	40	
			Tug boat	CNP 221	1	110	100%	N/A	0	458	-61	3	40	
			Winch (petrol)	CNP 263	1	102	100%	N/A	0	458	-61	3	44	
			Winch (pneumatic)	CNP 261	1	110	100%	N/A	0	458	-61	3	52	
			Generator, standard	CNP 101	2	108	100%	N/A	0	458	-61	3	53	
			Concrete pump, stationary/lorry mounted	CNP 047	1	109	100%	N/A	0	458	-61	3	51	
			Concrete lorry mixer	CNP 044	1	109	100%	N/A	0	458	-61	3	51	
			Poker, vibratory, hand-held	CNP 170	2	113	100%	N/A	0	458	-61	3	58	
			Excavator/loader, wheeled/tracked	CNP 081	2	112	100%	N/A	0	458	-61	3	57	
			Bar bender and cutter (electric)	CNP 021	1	90	100%	N/A	0	458	-61	3	32	
			Asphalt paver	CNP 004	1	101	100%	N/A	0	458	-61	3	43	
			Roller, vibratory	CNP 186	1	101	100%	N/A	0	458	-61	3	43	
			<b>CNL at NAP dB(A)</b>											

Notes:  
 [1]: PMEs in each works group are assigned to sub-groups by considering the work process, such that each sub-group would not take place with others at the same time.  
 [2]: The PME will be used at the exact fixed locations as shown in Figure 4.3, the nearest fixed location have been used for this assessment.  
 [3]: The highest CNL at NAP among the groups is adopted.  
 [4]: The boundary of the construction works areas are shown in Figure 4.3.



Appendix 4.4 - Details of Construction Noise Assessment (Unmitigated Scenario)  
 Airport Tung Chung Link Project Environmental Impact Assessment

Calculation of Construction Noise Level (Unmitigated Scenario) (Construction Works Area A)  
 NAP: N09b - Tung Chung Crescent Block 3

Activity ID	Description of Activity	PME		No. of PME	SWL dB(A)/unit	% on time	Type of Noise Screening	Screening Correction dB(A)	Horizontal Distance, m	Distance Correction, dB(A)	Façade Correction dB(A)	CNL at NAP dB(A) from each PME	CNL at NAP dB(A)	
		Group	Description											TM or other ref.
A1	Site Establishment	A1.A	Excavator/loader, wheeled/tracked	CNP 081	1	112	100%	N/A	0	190	-54	3	61	74
			Crane, mobile/barge mounted (diesel)	CNP 048	1	112	100%	N/A	0	190	-54	3	61	
			Generator, standard	CNP 101	1	108	100%	N/A	0	190	-54	3	57	
			Breaker, excavator mounted (hydraulic)	CNP 028	1	122	100%	N/A	0	190	-54	3	71	
			Piling, vibrating hammer <sup>[1]</sup>	EPD	1	115	100%	N/A	0	190	-54	3	64	
			Dump truck, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[1]</sup>	EPD	1	105	70%	N/A	0	190	-54	3	53	
			Concrete pump, stationary/lorry mounted	CNP 047	1	109	100%	N/A	0	190	-54	3	58	
			Concrete lorry mixer	CNP 044	1	109	100%	N/A	0	190	-54	3	58	
			Poker, vibratory, hand-held	CNP 170	1	113	100%	N/A	0	190	-54	3	62	
			Asphalt paver	CNP 004	1	109	100%	N/A	0	190	-54	3	58	
			Roller, vibratory	CNP 186	1	108	100%	N/A	0	190	-54	3	57	
			Water pump (electric)	CNP 281	1	88	100%	N/A	0	190	-54	3	37	
<b>CNL at NAP dB(A)</b>												<b>74</b>		

Notes:

[1]: The SWL is referenced to EPD website: [https://www.epd.gov.hk/epd/sites/default/files/epd/english/application\\_for\\_licences/guidance/files/OtherSWLe.pdf](https://www.epd.gov.hk/epd/sites/default/files/epd/english/application_for_licences/guidance/files/OtherSWLe.pdf)

[2]: The boundary of the construction works areas are shown in Figure 4.3.

Appendix 4.4 - Details of Construction Noise Assessment (Unmitigated Scenario)  
 Airport Tung Chung Link Project Environmental Impact Assessment

Calculation of Construction Noise Level (Unmitigated Scenario) (Construction Works Area B)  
 NAP: N09b - Tung Chung Crescent Block 3

Activity ID	Description of Activity	PME		No. of PME	SWL dB(A)/unit	% on time	Type of Noise Screening	Screening Correction dB(A)	Horizontal Distance, m	Distance Correction, dB(A)	Façade Correction dB(A)	CNL at NAP dB(A) from each PME	CNL at NAP dB(A)	
		Group <sup>[1]</sup>	Description											TM or other ref.
B1	Site Establishment	B1.A	Excavator/loader, wheeled/tracked	CNP 081	2	112	100%	N/A	0	207	-54	3	64	73
			Crane, mobile/barge mounted (diesel)	CNP 048	1	112	100%	N/A	0	207	-54	3	61	
			Generator, standard	CNP 101	1	108	100%	N/A	0	207	-54	3	57	
			Breaker, excavator mounted (hydraulic)	CNP 028	1	122	100%	N/A	0	207	-54	3	71	
			Piling, vibrating hammer <sup>[2]</sup>	EPD	1	115	100%	N/A	0	207	-54	3	64	
			Dump truck, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	70%	N/A	0	207	-54	3	52	
			Water pump (electric)	CNP 281	1	88	100%	N/A	0	207	-54	3	37	
<b>CNL at NAP dB(A)</b>												<b>73</b>		
B2	Substructure	B2.A	Piling, large diameter bored, grab and chisel <sup>[3]</sup>	CNP 164	1	115	70%	N/A	0	212	-55	3	62	67
			Air Compressor, air flow > 10m <sup>3</sup> /min and < 30m <sup>3</sup> /min	CNP 002	1	102	70%	N/A	0	207	-54	3	49	
			Crane, mobile/barge mounted (diesel)	CNP 048	1	112	70%	N/A	0	207	-54	3	59	
			Generator, standard	CNP 101	1	108	100%	N/A	0	207	-54	3	57	
			Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	70%	N/A	0	207	-54	3	52	
			Excavator/loader, wheeled/tracked	CNP 081	2	112	100%	N/A	0	207	-54	3	64	
			Water pump (electric)	CNP 281	2	88	100%	N/A	0	207	-54	3	40	
		B2.B	Piling, large diameter bored, oscillator <sup>[3]</sup>	CNP 165	1	115	70%	N/A	0	212	-55	3	62	67
			Air Compressor, air flow > 10m <sup>3</sup> /min and < 30m <sup>3</sup> /min	CNP 002	1	102	70%	N/A	0	207	-54	3	49	
			Crane, mobile/barge mounted (diesel)	CNP 048	1	112	70%	N/A	0	207	-54	3	59	
			Generator, standard	CNP 101	1	108	100%	N/A	0	207	-54	3	57	
			Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	70%	N/A	0	207	-54	3	52	
			Excavator/loader, wheeled/tracked	CNP 081	2	112	100%	N/A	0	207	-54	3	64	
			Water pump (electric)	CNP 281	2	88	100%	N/A	0	207	-54	3	40	
		B2.C	Piling, large diameter bored, reverse circulation drill <sup>[3]</sup>	CNP 166	1	100	70%	N/A	0	212	-55	3	47	66
			Air Compressor, air flow > 10m <sup>3</sup> /min and < 30m <sup>3</sup> /min	CNP 002	1	102	70%	N/A	0	207	-54	3	49	
			Crane, mobile/barge mounted (diesel)	CNP 048	1	112	70%	N/A	0	207	-54	3	59	
			Generator, standard	CNP 101	1	108	100%	N/A	0	207	-54	3	57	
			Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	70%	N/A	0	207	-54	3	52	
			Excavator/loader, wheeled/tracked	CNP 081	2	112	100%	N/A	0	207	-54	3	64	
			Water pump (electric)	CNP 281	2	88	100%	N/A	0	207	-54	3	40	
		B2.D	Crane, mobile/barge mounted (diesel)	CNP 048	1	112	100%	N/A	0	207	-54	3	61	70
			Generator, standard	CNP 101	1	108	100%	N/A	0	207	-54	3	57	
			Concrete pump, stationary/lorry mounted	CNP 047	1	109	100%	N/A	0	207	-54	3	58	
			Concrete lorry mixer	CNP 044	2	109	100%	N/A	0	207	-54	3	61	
			Poker, vibratory, hand-held	CNP 170	2	113	100%	N/A	0	207	-54	3	65	
			Bar bender and cutter (electric)	CNP 021	1	90	100%	N/A	0	207	-54	3	39	
			Excavator/loader, wheeled/tracked	CNP 081	2	112	100%	N/A	0	207	-54	3	64	
Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD		1	105	100%	N/A	0	207	-54	3	54			
Water pump (electric)	CNP 281		2	88	100%	N/A	0	207	-54	3	40			
<b>CNL at NAP dB(A) <sup>[5]</sup></b>												<b>70</b>		
B3	Superstructure	B3.A	Crane, mobile/barge mounted (diesel)	CNP 048	1	112	100%	N/A	0	207	-54	3	61	70
			Generator, standard	CNP 101	2	108	100%	N/A	0	207	-54	3	60	
			Concrete pump, stationary/lorry mounted	CNP 047	1	109	100%	N/A	0	207	-54	3	58	
			Concrete lorry mixer	CNP 044	1	109	100%	N/A	0	207	-54	3	58	
			Poker, vibratory, hand-held	CNP 170	2	113	100%	N/A	0	207	-54	3	65	
			Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	100%	N/A	0	207	-54	3	54	
			Excavator/loader, wheeled/tracked	CNP 081	2	112	100%	N/A	0	207	-54	3	64	
			Bar bender and cutter (electric)	CNP 021	1	90	100%	N/A	0	207	-54	3	39	
			Asphalt paver	CNP 004	1	109	100%	N/A	0	207	-54	3	58	
			Roller, vibratory	CNP 186	1	108	100%	N/A	0	207	-54	3	57	
<b>CNL at NAP dB(A)</b>												<b>70</b>		
B4	Building Service and Finishes	B4.A	Generator, standard	CNP 101	1	108	100%	N/A	0	207	-54	3	57	61
			Cherry picker <sup>[4]</sup>	Ref: AEIAR-173/2013	2	107	100%	N/A	0	207	-54	3	59	
<b>CNL at NAP dB(A)</b>												<b>61</b>		

Notes:  
 [1]: PMEs in each works group are assigned to sub-groups by considering the work process, such that each sub-group would not take place with others at the same time.  
 [2]: The SWL is referenced to EPD website: [https://www.epd.gov.hk/epd/sites/default/files/epd/english/application\\_for\\_licences/guidance/files/OtherSWLe.pdf](https://www.epd.gov.hk/epd/sites/default/files/epd/english/application_for_licences/guidance/files/OtherSWLe.pdf)  
 [3]: The PME will be used at the exact fixed locations as shown in Figure 4.3, the nearest fixed location have been used for this assessment.  
 [4]: The SWL of the PME is referenced to the EIA report of the Tseung Kwan O – Lam Tin Tunnel and Associated Works (Register No. AEIAR-173/2013).  
 [5]: The highest CNL at NAP among the groups is adopted.  
 [6]: The boundary of the construction works areas are shown in Figure 4.3.

Appendix 4.4 - Details of Construction Noise Assessment (Unmitigated Scenario)  
 Airport Tung Chung Link Project Environmental Impact Assessment

Calculation of Construction Noise Level (Unmitigated Scenario) (Construction Works Area C)  
 NAP: N09b - Tung Chung Crescent Block 3

Activity ID	Description of Activity	PME			No. of PME	SWL dB(A)/unit	% on time	Type of Noise Screening	Screening Correction dB(A)	Horizontal Distance, m	Distance Correction, dB(A)	Façade Correction dB(A)	CNL at NAP dB(A) from each PME	CNL at NAP dB(A)
		Group <sup>[1]</sup>	Description	TM or other ref.										
C1	Site Establishment	C1.A	Excavator/loader, wheeled/tracked	CNP 081	1	112	100%	N/A	0	274	-57	3	58	70
			Dump truck, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	70%	N/A	0	274	-57	3	50	
			Piling, vibrating hammer <sup>[2]</sup>	EPD	1	115	100%	N/A	0	274	-57	3	61	
			Breaker, excavator mounted (hydraulic)	CNP 028	1	122	100%	N/A	0	274	-57	3	68	
			Generator, standard	CNP 101	1	108	100%	N/A	0	274	-57	3	54	
												<b>CNL at NAP dB(A)</b>	<b>70</b>	
C2	Substructure	C2.A	Piling, large diameter bored, grab and chisel <sup>[3]</sup>	CNP 164	1	115	70%	N/A	0	271	-57	3	60	64
			Air Compressor, air flow > 10m <sup>3</sup> /min and < 30m <sup>3</sup> /min	CNP 002	1	102	70%	N/A	0	274	-57	3	47	
			Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	70%	N/A	0	274	-57	3	50	
			Excavator/loader, wheeled/tracked	CNP 081	1	112	100%	N/A	0	274	-57	3	58	
			Crane, mobile/barge mounted (diesel)	CNP 048	1	112	70%	N/A	0	274	-57	3	57	
			Generator, standard	CNP 101	1	108	100%	N/A	0	274	-57	3	54	
			Water pump (electric)	CNP 281	2	88	100%	N/A	0	274	-57	3	37	
		C2.B	Piling, large diameter bored, oscillator <sup>[3]</sup>	CNP 165	1	115	70%	N/A	0	271	-57	3	60	64
			Air Compressor, air flow > 10m <sup>3</sup> /min and < 30m <sup>3</sup> /min	CNP 002	1	102	70%	N/A	0	274	-57	3	47	
			Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	70%	N/A	0	274	-57	3	50	
			Excavator/loader, wheeled/tracked	CNP 081	1	112	100%	N/A	0	274	-57	3	58	
			Crane, mobile/barge mounted (diesel)	CNP 048	1	112	70%	N/A	0	274	-57	3	57	
			Generator, standard	CNP 101	1	108	100%	N/A	0	274	-57	3	54	
			Water pump (electric)	CNP 281	2	88	100%	N/A	0	274	-57	3	37	
		C2.C	Piling, large diameter bored, reverse circulation drill <sup>[3]</sup>	CNP 166	1	100	70%	N/A	0	271	-57	3	45	62
			Air Compressor, air flow > 10m <sup>3</sup> /min and < 30m <sup>3</sup> /min	CNP 002	1	102	70%	N/A	0	274	-57	3	47	
			Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	70%	N/A	0	274	-57	3	50	
			Excavator/loader, wheeled/tracked	CNP 081	1	112	100%	N/A	0	274	-57	3	58	
			Crane, mobile/barge mounted (diesel)	CNP 048	1	112	70%	N/A	0	274	-57	3	57	
			Generator, standard	CNP 101	1	108	100%	N/A	0	274	-57	3	54	
			Water pump (electric)	CNP 281	2	88	100%	N/A	0	274	-57	3	37	
		C2.D	Crane, mobile/barge mounted (diesel)	CNP 048	1	112	100%	N/A	0	274	-57	3	58	67
			Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	100%	N/A	0	274	-57	3	51	
			Excavator/loader, wheeled/tracked	CNP 081	2	112	100%	N/A	0	274	-57	3	61	
			Generator, standard	CNP 101	1	108	100%	N/A	0	274	-57	3	54	
			Water pump (electric)	CNP 281	2	88	100%	N/A	0	274	-57	3	37	
			Concrete pump, stationary/lorry mounted	CNP 047	1	109	100%	N/A	0	274	-57	3	55	
			Bar bender and cutter (electric)	CNP 021	1	90	100%	N/A	0	274	-57	3	36	
Poker, vibratory, hand-held	CNP 170		2	113	100%	N/A	0	274	-57	3	62			
Concrete lorry mixer	CNP 044	2	109	100%	N/A	0	274	-57	3	58				
												<b>CNL at NAP dB(A) <sup>[4]</sup></b>	<b>67</b>	
C3	Superstructure	C3.A	Crane, mobile/barge mounted (diesel)	CNP 048	1	112	100%	N/A	0	274	-57	3	58	59
			Winch (petrol)	CNP 263	1	102	100%	N/A	0	274	-57	3	48	
		C3.B	Crane, mobile/barge mounted (diesel)	CNP 048	1	112	100%	N/A	0	274	-57	3	58	64
			Winch (electric)	CNP 262	1	95	100%	N/A	0	274	-57	3	41	
			Generator, standard	CNP 101	2	108	100%	N/A	0	274	-57	3	57	
			Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	100%	N/A	0	274	-57	3	51	
			Excavator/loader, wheeled/tracked	CNP 081	2	112	100%	N/A	0	274	-57	3	61	
		C3.C	Concrete pump, stationary/lorry mounted	CNP 047	1	109	100%	N/A	0	274	-57	3	55	65
			Concrete lorry mixer	CNP 044	1	109	100%	N/A	0	274	-57	3	55	
			Poker, vibratory, hand-held	CNP 170	2	113	100%	N/A	0	274	-57	3	62	
			Generator, standard	CNP 101	2	108	100%	N/A	0	274	-57	3	57	
		C3.D	Generator, standard	CNP 101	2	108	100%	N/A	0	274	-57	3	57	57
			Bar bender and cutter (electric)	CNP 021	1	90	100%	N/A	0	274	-57	3	36	
		C3.E	Asphalt paver	CNP 004	1	109	100%	N/A	0	274	-57	3	55	58
			Roller, vibratory	CNP 186	1	108	100%	N/A	0	274	-57	3	54	
												<b>CNL at NAP dB(A) <sup>[4]</sup></b>	<b>65</b>	

Notes:  
 [1]: PMEs in each works group are assigned to sub-groups by considering the work process, such that each sub-group would not take place with others at the same time.  
 [2]: The SWL is referenced to EPD website: [https://www.epd.gov.hk/epd/sites/default/files/epd/english/application\\_for\\_licences/guidance/files/OtherSWLe.pdf](https://www.epd.gov.hk/epd/sites/default/files/epd/english/application_for_licences/guidance/files/OtherSWLe.pdf)  
 [3]: The PME will be used at the exact fixed locations as shown in Figure 4.3, the nearest fixed location have been used for this assessment.  
 [4]: The highest CNL at NAP among the groups is adopted.  
 [5]: The boundary of the construction works areas are shown in Figure 4.3.

Appendix 4.4 - Details of Construction Noise Assessment (Unmitigated Scenario)  
 Airport Tung Chung Link Project Environmental Impact Assessment

Calculation of Construction Noise Level (Unmitigated Scenario) (Construction Works Area D)  
 NAP: N09b - Tung Chung Crescent Block 3

Activity ID	Description of Activity	PME			No. of PME	SWL dB(A)/unit	% on time	Type of Noise Screening	Screening Correction dB(A)	Horizontal Distance, m	Distance Correction, dB(A)	Façade Correction dB(A)	CNL at NAP dB(A) from each PME	CNL at NAP dB(A)
		Group <sup>[1]</sup>	Description	TM or other ref.										
D1	Site Establishment	D1.A	Excavator/loader, wheeled/tracked	CNP 081	1	112	100%	N/A	0	350	-59	3	56	67
			Dump truck, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	70%	N/A	0	350	-59	3	48	
			Piling, vibrating hammer <sup>[2]</sup>	EPD	1	115	100%	N/A	0	350	-59	3	59	
			Breaker, excavator mounted (hydraulic)	CNP 028	1	122	100%	N/A	0	350	-59	3	66	
			Generator, standard	CNP 101	1	108	100%	N/A	0	350	-59	3	52	
			<b>CNL at NAP dB(A)</b>											
D2	Substructure	D2.A	Piling, large diameter bored, grab and chisel <sup>[3]</sup>	CNP 164	1	115	70%	N/A	0	342	-59	3	58	62
			Air Compressor, air flow > 10m <sup>3</sup> /min and < 30m <sup>3</sup> /min	CNP 002	1	102	70%	N/A	0	350	-59	3	45	
			Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	70%	N/A	0	350	-59	3	48	
			Excavator/loader, wheeled/tracked	CNP 081	1	112	100%	N/A	0	350	-59	3	56	
			Crane, mobile/barge mounted (diesel)	CNP 048	1	112	70%	N/A	0	350	-59	3	55	
			Generator, standard	CNP 101	1	108	100%	N/A	0	350	-59	3	52	
			Water pump (electric)	CNP 281	2	88	100%	N/A	0	350	-59	3	35	
		D2.B	Piling, large diameter bored, oscillator <sup>[3]</sup>	CNP 165	1	115	70%	N/A	0	342	-59	3	58	62
			Air Compressor, air flow > 10m <sup>3</sup> /min and < 30m <sup>3</sup> /min	CNP 002	1	102	70%	N/A	0	350	-59	3	45	
			Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	70%	N/A	0	350	-59	3	48	
			Excavator/loader, wheeled/tracked	CNP 081	1	112	100%	N/A	0	350	-59	3	56	
			Crane, mobile/barge mounted (diesel)	CNP 048	1	112	70%	N/A	0	350	-59	3	55	
			Generator, standard	CNP 101	1	108	100%	N/A	0	350	-59	3	52	
			Water pump (electric)	CNP 281	2	88	100%	N/A	0	350	-59	3	35	
		D2.C	Piling, large diameter bored, reverse circulation drill <sup>[3]</sup>	CNP 166	1	100	70%	N/A	0	342	-59	3	43	60
			Air Compressor, air flow > 10m <sup>3</sup> /min and < 30m <sup>3</sup> /min	CNP 002	1	102	70%	N/A	0	350	-59	3	45	
			Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	70%	N/A	0	350	-59	3	48	
			Excavator/loader, wheeled/tracked	CNP 081	1	112	100%	N/A	0	350	-59	3	56	
			Crane, mobile/barge mounted (diesel)	CNP 048	1	112	70%	N/A	0	350	-59	3	55	
			Generator, standard	CNP 101	1	108	100%	N/A	0	350	-59	3	52	
			Water pump (electric)	CNP 281	2	88	100%	N/A	0	350	-59	3	35	
		D2.D	Crane, mobile/barge mounted (diesel)	CNP 048	1	112	100%	N/A	0	350	-59	3	56	65
			Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	100%	N/A	0	350	-59	3	49	
			Excavator/loader, wheeled/tracked	CNP 081	2	112	100%	N/A	0	350	-59	3	59	
			Generator, standard	CNP 101	1	108	100%	N/A	0	350	-59	3	52	
			Water pump (electric)	CNP 281	2	88	100%	N/A	0	350	-59	3	35	
			Concrete pump, stationary/lorry mounted	CNP 047	1	109	100%	N/A	0	350	-59	3	53	
			Bar bender and cutter (electric)	CNP 021	1	90	100%	N/A	0	350	-59	3	34	
			Poker, vibratory, hand-held	CNP 170	2	113	100%	N/A	0	350	-59	3	60	
		Concrete lorry mixer	CNP 044	2	109	100%	N/A	0	350	-59	3	56		
<b>CNL at NAP dB(A) <sup>[4]</sup></b>												<b>65</b>		
D3	Superstructure	D3.A	Crane, mobile/barge mounted (diesel)	CNP 048	1	112	100%	N/A	0	350	-59	3	56	57
			Winch (petrol)	CNP 263	1	102	100%	N/A	0	350	-59	3	46	
		D3.B	Crane, mobile/barge mounted (diesel)	CNP 048	1	112	100%	N/A	0	350	-59	3	56	62
			Winch (electric)	CNP 262	1	95	100%	N/A	0	350	-59	3	39	
			Generator, standard	CNP 101	2	108	100%	N/A	0	350	-59	3	55	
			Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	100%	N/A	0	350	-59	3	49	
			Excavator/loader, wheeled/tracked	CNP 081	2	112	100%	N/A	0	350	-59	3	59	
		D3.C	Concrete pump, stationary/lorry mounted	CNP 047	1	109	100%	N/A	0	350	-59	3	53	62
			Concrete lorry mixer	CNP 044	1	109	100%	N/A	0	350	-59	3	53	
			Poker, vibratory, hand-held	CNP 170	2	113	100%	N/A	0	350	-59	3	60	
			Generator, standard	CNP 101	2	108	100%	N/A	0	350	-59	3	55	
		D3.D	Generator, standard	CNP 101	2	108	100%	N/A	0	350	-59	3	55	55
			Bar bender and cutter (electric)	CNP 021	1	90	100%	N/A	0	350	-59	3	34	
		D3.E	Asphalt paver	CNP 004	1	109	100%	N/A	0	350	-59	3	53	56
			Roller, vibratory	CNP 186	1	108	100%	N/A	0	350	-59	3	52	
<b>CNL at NAP dB(A) <sup>[4]</sup></b>												<b>62</b>		

Notes:  
 [1]: PMEs in each works group are assigned to sub-groups by considering the work process, such that each sub-group would not take place with others at the same time.  
 [2]: The SWL is referenced to EPD website: [https://www.epd.gov.hk/epd/sites/default/files/epd/english/application\\_for\\_licences/guidance/files/OtherSWLe.pdf](https://www.epd.gov.hk/epd/sites/default/files/epd/english/application_for_licences/guidance/files/OtherSWLe.pdf)  
 [3]: The PME will be used at the exact fixed locations as shown in Figure 4.3, the nearest fixed location have been used for this assessment.  
 [4]: The highest CNL at NAP among the groups is adopted.  
 [5]: The boundary of the construction works areas are shown in Figure 4.3.

Appendix 4.4 - Details of Construction Noise Assessment (Unmitigated Scenario)  
 Airport Tung Chung Link Project Environmental Impact Assessment

Calculation of Construction Noise Level (Unmitigated Scenario) (Construction Works Area E)  
 NAP: N09b - Tung Chung Crescent Block 3

Activity ID	Description of Activity	PME			No. of PME	SWL dB(A)/unit	% on time	Type of Noise Screening	Screening Correction dB(A)	Horizontal Distance, m	Distance Correction, dB(A)	Façade Correction dB(A)	CNL at NAP dB(A) from each PME	CNL at NAP dB(A)
		Group <sup>[1]</sup>	Description	TM or other ref.										
E1	Site Establishment	E1.A	Excavator/loader, wheeled/tracked	CNP 081	1	112	100%	N/A	0	437	-61	3	54	66
			Generator, standard	CNP 101	1	108	100%	N/A	0	437	-61	3	50	
			Dump truck, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	70%	N/A	0	437	-61	3	46	
			Piling, vibrating hammer <sup>[2]</sup>	EPD	1	115	100%	N/A	0	437	-61	3	57	
			Breaker, excavator mounted (hydraulic)	CNP 028	1	122	100%	N/A	0	437	-61	3	64	
												<b>CNL at NAP dB(A)</b>	<b>66</b>	
E2	Substructure	E2.A	Piling, large diameter bored, reverse circulation drill <sup>[3]</sup>	CNP 166	1	100	70%	N/A	0	446	-61	3	40	64
			Piling, large diameter bored, oscillator <sup>[3]</sup>	CNP 165	1	115	70%	N/A	0	446	-61	3	55	
			Air Compressor, air flow > 10m <sup>3</sup> /min and < 30m <sup>3</sup> /min	CNP 002	1	102	100%	N/A	0	437	-61	3	44	
			Crane, mobile/barge mounted (diesel)	CNP 048	1	112	100%	N/A	0	437	-61	3	54	
			Generator, standard	CNP 101	1	108	100%	N/A	0	437	-61	3	50	
			Piling, large diameter bored, grab and chisel <sup>[3]</sup>	CNP 164	1	115	70%	N/A	0	446	-61	3	55	
			Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	100%	N/A	0	437	-61	3	47	
			Concrete pump, stationary/lorry mounted	CNP 047	1	109	100%	N/A	0	437	-61	3	51	
			Concrete lorry mixer	CNP 044	2	109	100%	N/A	0	437	-61	3	54	
			Bar bender and cutter (electric)	CNP 021	1	90	100%	N/A	0	437	-61	3	32	
			Excavator/loader, wheeled/tracked	CNP 081	1	112	100%	N/A	0	437	-61	3	54	
			Water pump (electric)	CNP 281	2	88	100%	N/A	0	437	-61	3	33	
			Poker, vibratory, hand-held	CNP 170	2	113	100%	N/A	0	437	-61	3	58	
												<b>CNL at NAP dB(A)</b>	<b>64</b>	
E3	Superstructure	E3.A	Crane, mobile/barge mounted (diesel)	CNP 048	1	112	100%	N/A	0	437	-61	3	54	64
			Winch (petrol)	CNP 263	1	102	100%	N/A	0	437	-61	3	44	
			Winch (electric)	CNP 262	1	95	100%	N/A	0	437	-61	3	37	
			Generator, standard	CNP 101	2	108	100%	N/A	0	437	-61	3	53	
			Concrete pump, stationary/lorry mounted	CNP 047	1	109	100%	N/A	0	437	-61	3	51	
			Concrete lorry mixer	CNP 044	1	109	100%	N/A	0	437	-61	3	51	
			Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	100%	N/A	0	437	-61	3	47	
			Poker, vibratory, hand-held	CNP 170	2	113	100%	N/A	0	437	-61	3	58	
			Excavator/loader, wheeled/tracked	CNP 081	2	112	100%	N/A	0	437	-61	3	57	
			Bar bender and cutter (electric)	CNP 021	1	90	100%	N/A	0	437	-61	3	32	
			Asphalt paver	CNP 004	1	109	100%	N/A	0	437	-61	3	51	
			Roller, vibratory	CNP 186	1	108	100%	N/A	0	437	-61	3	50	
												<b>CNL at NAP dB(A)</b>	<b>64</b>	
E4	Landscape Softworks and Cycle Track	E4.A	Excavator/loader, wheeled/tracked	CNP 081	1	112	100%	N/A	0	437	-61	3	54	57
			Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	100%	N/A	0	437	-61	3	47	
			Generator, standard	CNP 101	1	108	100%	N/A	0	437	-61	3	50	
			Compactor, vibratory	CNP 050	1	105	100%	N/A	0	437	-61	3	47	
												<b>CNL at NAP dB(A)</b>	<b>57</b>	

Notes:  
 [1]: PMEs in each works group are assigned to sub-groups by considering the work process, such that each sub-group would not take place with others at the same time.  
 [2]: The SWL is referenced to EPD website: [https://www.epd.gov.hk/epd/sites/default/files/epd/english/application\\_for\\_licences/guidance/files/OtherSWLe.pdf](https://www.epd.gov.hk/epd/sites/default/files/epd/english/application_for_licences/guidance/files/OtherSWLe.pdf)  
 [3]: The PME will be used at the exact fixed locations as shown in Figure 4.3, the nearest fixed location have been used for this assessment.  
 [4]: The boundary of the construction works areas are shown in Figure 4.3.



Appendix 4.4 - Details of Construction Noise Assessment (Unmitigated Scenario)  
 Airport Tung Chung Link Project Environmental Impact Assessment

Calculation of Construction Noise Level (Unmitigated Scenario) (Construction Works Area F)  
 NAP: N09b - Tung Chung Crescent Block 3

Activity ID	Description of Activity	PME		No. of PME	SWL dB(A)/unit	% on time	Type of Noise Screening	Screening Correction dB(A)	Horizontal Distance, m	Distance Correction, dB(A)	Façade Correction dB(A)	CNL at NAP dB(A) from each PME	CNL at NAP dB(A)	
		Group <sup>[1]</sup>	Description											TM or other ref.
F1	Substructure	F1.A	Piling, large diameter bored, reverse circulation drill <sup>[2]</sup>	CNP 166	1	100	70%	N/A	0	507	-62	3	39	58
			Air Compressor, air flow > 10m <sup>3</sup> /min and < 30m <sup>3</sup> /min	CNP 002	1	102	70%	N/A	0	534	-63	3	41	
			Crane, mobile/barge mounted (diesel)	CNP 048	1	112	70%	N/A	0	534	-63	3	51	
			Excavator, wheeled/tracked	CNP 081	1	112	100%	N/A	0	534	-63	3	52	
			Generator, standard	CNP 101	2	108	100%	N/A	0	534	-63	3	51	
			Derrick barge	CNP 061	1	104	100%	N/A	0	534	-63	3	44	
			Tug boat	CNP 221	1	110	100%	N/A	0	534	-63	3	50	
			Water pump, submersible (electric)	CNP 283	2	85	100%	N/A	0	534	-63	3	28	
		F1.B	Piling, large diameter bored, oscillator <sup>[2]</sup>	CNP 165	1	115	70%	N/A	0	507	-62	3	54	59
			Air Compressor, air flow > 10m <sup>3</sup> /min and < 30m <sup>3</sup> /min	CNP 002	1	102	70%	N/A	0	534	-63	3	41	
			Crane, mobile/barge mounted (diesel)	CNP 048	1	112	70%	N/A	0	534	-63	3	51	
			Excavator, wheeled/tracked	CNP 081	1	112	100%	N/A	0	534	-63	3	52	
			Generator, standard	CNP 101	2	108	100%	N/A	0	534	-63	3	51	
			Derrick barge	CNP 061	1	104	100%	N/A	0	534	-63	3	44	
			Tug boat	CNP 221	1	110	100%	N/A	0	534	-63	3	50	
			Water pump, submersible (electric)	CNP 283	2	85	100%	N/A	0	534	-63	3	28	
		F1.C	Piling, large diameter bored, grab and chisel <sup>[2]</sup>	CNP 164	1	115	70%	N/A	0	507	-62	3	54	59
			Air Compressor, air flow > 10m <sup>3</sup> /min and < 30m <sup>3</sup> /min	CNP 002	1	102	70%	N/A	0	534	-63	3	41	
			Crane, mobile/barge mounted (diesel)	CNP 048	1	112	70%	N/A	0	534	-63	3	51	
			Excavator, wheeled/tracked	CNP 081	1	112	100%	N/A	0	534	-63	3	52	
			Generator, standard	CNP 101	2	108	100%	N/A	0	534	-63	3	51	
			Derrick barge	CNP 061	1	104	100%	N/A	0	534	-63	3	44	
			Tug boat	CNP 221	1	110	100%	N/A	0	534	-63	3	50	
			Water pump, submersible (electric)	CNP 283	2	85	100%	N/A	0	534	-63	3	28	
		F1.D	Crane, mobile/barge mounted (diesel)	CNP 048	1	112	100%	N/A	0	534	-63	3	52	60
			Excavator/loader, wheeled/tracked	CNP 081	1	112	100%	N/A	0	534	-63	3	52	
			Generator, standard	CNP 101	2	108	100%	N/A	0	534	-63	3	51	
			Water pump, submersible (electric)	CNP 283	2	85	100%	N/A	0	534	-63	3	28	
			Concrete pump, stationary/lorry mounted	CNP 047	1	109	100%	N/A	0	534	-63	3	49	
			Concrete lorry mixer	CNP 044	1	109	100%	N/A	0	534	-63	3	49	
			Poker, vibratory, hand-held	CNP 170	1	113	100%	N/A	0	534	-63	3	53	
			Bar bender and cutter (electric)	CNP 021	1	90	100%	N/A	0	534	-63	3	30	
Derrick barge	CNP 061		1	104	100%	N/A	0	534	-63	3	44			
Tug boat	CNP 221		1	110	100%	N/A	0	534	-63	3	50			
<b>CNL at NAP dB(A) <sup>[3]</sup></b>												<b>60</b>		
F2	Superstructure	F2.A	Crane, mobile/barge mounted (diesel)	CNP 048	1	112	100%	N/A	0	534	-63	3	52	62
			Derrick barge	CNP 061	1	104	100%	N/A	0	534	-63	3	40	
			Tug boat	CNP 221	1	110	100%	N/A	0	534	-63	3	40	
			Winch (petrol)	CNP 263	1	102	100%	N/A	0	534	-63	3	42	
			Winch (pneumatic)	CNP 261	1	110	100%	N/A	0	534	-63	3	50	
			Generator, standard	CNP 101	2	108	100%	N/A	0	534	-63	3	51	
			Concrete pump, stationary/lorry mounted	CNP 047	1	109	100%	N/A	0	534	-63	3	49	
			Concrete lorry mixer	CNP 044	1	109	100%	N/A	0	534	-63	3	49	
			Poker, vibratory, hand-held	CNP 170	2	113	100%	N/A	0	534	-63	3	56	
			Excavator/loader, wheeled/tracked	CNP 081	2	112	100%	N/A	0	534	-63	3	55	
			Bar bender and cutter (electric)	CNP 021	1	90	100%	N/A	0	534	-63	3	30	
			Asphalt paver	CNP 004	1	101	100%	N/A	0	534	-63	3	41	
			Roller, vibratory	CNP 186	1	101	100%	N/A	0	534	-63	3	41	
			<b>CNL at NAP dB(A)</b>											

Notes:  
 [1]: PMEs in each works group are assigned to sub-groups by considering the work process, such that each sub-group would not take place with others at the same time.  
 [2]: The PME will be used at the exact fixed locations as shown in Figure 4.3, the nearest fixed location have been used for this assessment.  
 [3]: The highest CNL at NAP among the groups is adopted.  
 [4]: The boundary of the construction works areas are shown in Figure 4.3.



Appendix 4.4 - Details of Construction Noise Assessment (Unmitigated Scenario)  
 Airport Tung Chung Link Project Environmental Impact Assessment

Calculation of Construction Noise Level (Unmitigated Scenario) (Construction Works Area A)  
 NAP: N09c - Tung Chung Crescent Block 5 (Point 2)

Activity ID	Description of Activity	PME		No. of PME	SWL dB(A)/unit	% on time	Type of Noise Screening	Screening Correction dB(A)	Horizontal Distance, m	Distance Correction, dB(A)	Façade Correction dB(A)	CNL at NAP dB(A) from each PME	CNL at NAP dB(A)	
		Group	Description											TM or other ref.
A1	Site Establishment	A1.A	Excavator/loader, wheeled/tracked	CNP 081	1	112	100%	N/A	0	210	-54	3	61	73
			Crane, mobile/barge mounted (diesel)	CNP 048	1	112	100%	N/A	0	210	-54	3	61	
			Generator, standard	CNP 101	1	108	100%	N/A	0	210	-54	3	57	
			Breaker, excavator mounted (hydraulic)	CNP 028	1	122	100%	N/A	0	210	-54	3	71	
			Piling, vibrating hammer <sup>[1]</sup>	EPD	1	115	100%	N/A	0	210	-54	3	64	
			Dump truck, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[1]</sup>	EPD	1	105	70%	N/A	0	210	-54	3	52	
			Concrete pump, stationary/lorry mounted	CNP 047	1	109	100%	N/A	0	210	-54	3	58	
			Concrete lorry mixer	CNP 044	1	109	100%	N/A	0	210	-54	3	58	
			Poker, vibratory, hand-held	CNP 170	1	113	100%	N/A	0	210	-54	3	62	
			Asphalt paver	CNP 004	1	109	100%	N/A	0	210	-54	3	58	
			Roller, vibratory	CNP 186	1	108	100%	N/A	0	210	-54	3	57	
			Water pump (electric)	CNP 281	1	88	100%	N/A	0	210	-54	3	37	
<b>CNL at NAP dB(A)</b>												<b>73</b>		

Notes:

[1]: The SWL is referenced to EPD website: [https://www.epd.gov.hk/epd/sites/default/files/epd/english/application\\_for\\_licences/guidance/files/OtherSWLe.pdf](https://www.epd.gov.hk/epd/sites/default/files/epd/english/application_for_licences/guidance/files/OtherSWLe.pdf)

[2]: The boundary of the construction works areas are shown in Figure 4.3.

Appendix 4.4 - Details of Construction Noise Assessment (Unmitigated Scenario)  
 Airport Tung Chung Link Project Environmental Impact Assessment

Calculation of Construction Noise Level (Unmitigated Scenario) (Construction Works Area B)  
 NAP: N09c - Tung Chung Crescent Block 5 (Point 2)

Activity ID	Description of Activity	PME		No. of PME	SWL dB(A)/unit	% on time	Type of Noise Screening	Screening Correction dB(A)	Horizontal Distance, m	Distance Correction, dB(A)	Façade Correction dB(A)	CNL at NAP dB(A) from each PME	CNL at NAP dB(A)	
		Group <sup>[1]</sup>	Description											TM or other ref.
B1	Site Establishment	B1.A	Excavator/loader, wheeled/tracked	CNP 081	2	112	100%	N/A	0	196	-54	3	64	73
			Crane, mobile/barge mounted (diesel)	CNP 048	1	112	100%	N/A	0	196	-54	3	61	
			Generator, standard	CNP 101	1	108	100%	N/A	0	196	-54	3	57	
			Breaker, excavator mounted (hydraulic)	CNP 028	1	122	100%	N/A	0	196	-54	3	71	
			Piling, vibrating hammer <sup>[2]</sup>	EPD	1	115	100%	N/A	0	196	-54	3	64	
			Dump truck, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	70%	N/A	0	196	-54	3	53	
			Water pump (electric)	CNP 281	1	88	100%	N/A	0	196	-54	3	37	
<b>CNL at NAP dB(A)</b>												<b>73</b>		
B2	Substructure	B2.A	Piling, large diameter bored, grab and chisel <sup>[3]</sup>	CNP 164	1	115	70%	N/A	0	206	-54	3	62	68
			Air Compressor, air flow > 10m3/min and < 30m3/min	CNP 002	1	102	70%	N/A	0	196	-54	3	50	
			Crane, mobile/barge mounted (diesel)	CNP 048	1	112	70%	N/A	0	196	-54	3	60	
			Generator, standard	CNP 101	1	108	100%	N/A	0	196	-54	3	57	
			Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	70%	N/A	0	196	-54	3	53	
			Excavator/loader, wheeled/tracked	CNP 081	2	112	100%	N/A	0	196	-54	3	64	
			Water pump (electric)	CNP 281	2	88	100%	N/A	0	196	-54	3	40	
		B2.B	Piling, large diameter bored, oscillator <sup>[3]</sup>	CNP 165	1	115	70%	N/A	0	206	-54	3	62	68
			Air Compressor, air flow > 10m3/min and < 30m3/min	CNP 002	1	102	70%	N/A	0	196	-54	3	50	
			Crane, mobile/barge mounted (diesel)	CNP 048	1	112	70%	N/A	0	196	-54	3	60	
			Generator, standard	CNP 101	1	108	100%	N/A	0	196	-54	3	57	
			Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	70%	N/A	0	196	-54	3	53	
			Excavator/loader, wheeled/tracked	CNP 081	2	112	100%	N/A	0	196	-54	3	64	
		B2.C	Piling, large diameter bored, reverse circulation drill <sup>[3]</sup>	CNP 166	1	100	70%	N/A	0	206	-54	3	47	66
			Air Compressor, air flow > 10m3/min and < 30m3/min	CNP 002	1	102	70%	N/A	0	196	-54	3	50	
			Crane, mobile/barge mounted (diesel)	CNP 048	1	112	70%	N/A	0	196	-54	3	60	
			Generator, standard	CNP 101	1	108	100%	N/A	0	196	-54	3	57	
			Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	70%	N/A	0	196	-54	3	53	
			Excavator/loader, wheeled/tracked	CNP 081	2	112	100%	N/A	0	196	-54	3	64	
		B2.D	Water pump (electric)	CNP 281	2	88	100%	N/A	0	196	-54	3	40	70
			Crane, mobile/barge mounted (diesel)	CNP 048	1	112	100%	N/A	0	196	-54	3	61	
			Generator, standard	CNP 101	1	108	100%	N/A	0	196	-54	3	57	
			Concrete pump, stationary/lorry mounted	CNP 047	1	109	100%	N/A	0	196	-54	3	58	
			Concrete lorry mixer	CNP 044	2	109	100%	N/A	0	196	-54	3	61	
			Poker, vibratory, hand-held	CNP 170	2	113	100%	N/A	0	196	-54	3	65	
			Bar bender and cutter (electric)	CNP 021	1	90	100%	N/A	0	196	-54	3	39	
			Excavator/loader, wheeled/tracked	CNP 081	2	112	100%	N/A	0	196	-54	3	64	
			Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	100%	N/A	0	196	-54	3	54	
Water pump (electric)	CNP 281		2	88	100%	N/A	0	196	-54	3	40			
<b>CNL at NAP dB(A) <sup>[5]</sup></b>												<b>70</b>		
B3	Superstructure	B3.A	Crane, mobile/barge mounted (diesel)	CNP 048	1	112	100%	N/A	0	196	-54	3	61	70
			Generator, standard	CNP 101	2	108	100%	N/A	0	196	-54	3	60	
			Concrete pump, stationary/lorry mounted	CNP 047	1	109	100%	N/A	0	196	-54	3	58	
			Concrete lorry mixer	CNP 044	1	109	100%	N/A	0	196	-54	3	58	
			Poker, vibratory, hand-held	CNP 170	2	113	100%	N/A	0	196	-54	3	65	
			Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	100%	N/A	0	196	-54	3	54	
			Excavator/loader, wheeled/tracked	CNP 081	2	112	100%	N/A	0	196	-54	3	64	
			Bar bender and cutter (electric)	CNP 021	1	90	100%	N/A	0	196	-54	3	39	
			Asphalt paver	CNP 004	1	109	100%	N/A	0	196	-54	3	58	
			Roller, vibratory	CNP 186	1	108	100%	N/A	0	196	-54	3	57	
<b>CNL at NAP dB(A)</b>												<b>70</b>		
B4	Building Service and Finishes	B4.A	Generator, standard	CNP 101	1	108	100%	N/A	0	196	-54	3	57	61
			Cherry picker <sup>[4]</sup>	Ref: AEIAR-173/2013	2	107	100%	N/A	0	196	-54	3	59	
<b>CNL at NAP dB(A)</b>												<b>61</b>		

Notes:  
 [1]: PMEs in each works group are assigned to sub-groups by considering the work process, such that each sub-group would not take place with others at the same time.  
 [2]: The SWL is referenced to EPD website: [https://www.epd.gov.hk/epd/sites/default/files/epd/english/application\\_for\\_licences/guidance/files/OtherSWLe.pdf](https://www.epd.gov.hk/epd/sites/default/files/epd/english/application_for_licences/guidance/files/OtherSWLe.pdf)  
 [3]: The PME will be used at the exact fixed locations as shown in Figure 4.3, the nearest fixed location have been used for this assessment.  
 [4]: The SWL of the PME is referenced to the EIA report of the Tseung Kwan O – Lam Tin Tunnel and Associated Works (Register No. AEIAR-173/2013).  
 [5]: The highest CNL at NAP among the groups is adopted.  
 [6]: The boundary of the construction works areas are shown in Figure 4.3.

Appendix 4.4 - Details of Construction Noise Assessment (Unmitigated Scenario)  
Airport Tung Chung Link Project Environmental Impact Assessment

Calculation of Construction Noise Level (Unmitigated Scenario) (Construction Works Area C)  
NAP: N09c - Tung Chung Crescent Block 5 (Point 2)

Activity ID	Description of Activity	PME			No. of PME	SWL dB(A)/unit	% on time	Type of Noise Screening	Screening Correction dB(A)	Horizontal Distance, m	Distance Correction, dB(A)	Façade Correction dB(A)	CNL at NAP dB(A) from each PME	CNL at NAP dB(A)
		Group <sup>[1]</sup>	Description	TM or other ref.										
C1	Site Establishment	C1.A	Excavator/loader, wheeled/tracked	CNP 081	1	112	100%	No Direct Line-of-Sight	-10	243	-56	3	49	59
			Dump truck, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	70%	No Direct Line-of-Sight	-10	243	-56	3	41	
			Piling, vibrating hammer <sup>[2]</sup>	EPD	1	115	100%	No Direct Line-of-Sight	-10	243	-56	3	52	
			Breaker, excavator mounted (hydraulic)	CNP 028	1	122	100%	No Direct Line-of-Sight	-10	243	-56	3	56	
			Generator, standard	CNP 101	1	108	100%	No Direct Line-of-Sight	-10	243	-56	3	45	
			<b>CNL at NAP dB(A)</b>											
C2	Substructure	C2.A	Piling, large diameter bored, grab and chisel <sup>[3]</sup>	CNP 164	1	115	70%	No Direct Line-of-Sight	-10	238	-56	3	51	55
			Air Compressor, air flow > 10m <sup>3</sup> /min and < 30m <sup>3</sup> /min	CNP 002	1	102	70%	No Direct Line-of-Sight	-10	243	-56	3	38	
			Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	70%	No Direct Line-of-Sight	-10	243	-56	3	41	
			Excavator/loader, wheeled/tracked	CNP 081	1	112	100%	No Direct Line-of-Sight	-10	243	-56	3	49	
			Crane, mobile/barge mounted (diesel)	CNP 048	1	112	70%	No Direct Line-of-Sight	-10	243	-56	3	48	
			Generator, standard	CNP 101	1	108	100%	No Direct Line-of-Sight	-10	243	-56	3	45	
			Water pump (electric)	CNP 281	2	88	100%	No Direct Line-of-Sight	-10	243	-56	3	28	
		C2.B	Piling, large diameter bored, oscillator <sup>[3]</sup>	CNP 165	1	115	70%	No Direct Line-of-Sight	-10	238	-56	3	51	55
			Air Compressor, air flow > 10m <sup>3</sup> /min and < 30m <sup>3</sup> /min	CNP 002	1	102	70%	No Direct Line-of-Sight	-10	243	-56	3	38	
			Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	70%	No Direct Line-of-Sight	-10	243	-56	3	41	
			Excavator/loader, wheeled/tracked	CNP 081	1	112	100%	No Direct Line-of-Sight	-10	243	-56	3	49	
			Crane, mobile/barge mounted (diesel)	CNP 048	1	112	70%	No Direct Line-of-Sight	-10	243	-56	3	48	
			Generator, standard	CNP 101	1	108	100%	No Direct Line-of-Sight	-10	243	-56	3	45	
			Water pump (electric)	CNP 281	2	88	100%	No Direct Line-of-Sight	-10	243	-56	3	28	
		C2.C	Piling, large diameter bored, reverse circulation drill <sup>[3]</sup>	CNP 166	1	100	70%	No Direct Line-of-Sight	-10	238	-56	3	36	53
			Air Compressor, air flow > 10m <sup>3</sup> /min and < 30m <sup>3</sup> /min	CNP 002	1	102	70%	No Direct Line-of-Sight	-10	243	-56	3	38	
			Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	70%	No Direct Line-of-Sight	-10	243	-56	3	41	
			Excavator/loader, wheeled/tracked	CNP 081	1	112	100%	No Direct Line-of-Sight	-10	243	-56	3	49	
			Crane, mobile/barge mounted (diesel)	CNP 048	1	112	70%	No Direct Line-of-Sight	-10	243	-56	3	48	
			Generator, standard	CNP 101	1	108	100%	No Direct Line-of-Sight	-10	243	-56	3	45	
			Water pump (electric)	CNP 281	2	88	100%	No Direct Line-of-Sight	-10	243	-56	3	28	
		C2.D	Crane, mobile/barge mounted (diesel)	CNP 048	1	112	100%	No Direct Line-of-Sight	-10	243	-56	3	49	58
			Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	100%	No Direct Line-of-Sight	-10	243	-56	3	42	
			Excavator/loader, wheeled/tracked	CNP 081	2	112	100%	No Direct Line-of-Sight	-10	243	-56	3	52	
			Generator, standard	CNP 101	1	108	100%	No Direct Line-of-Sight	-10	243	-56	3	45	
			Water pump (electric)	CNP 281	2	88	100%	No Direct Line-of-Sight	-10	243	-56	3	28	
			Concrete pump, stationary/lorry mounted	CNP 047	1	109	100%	No Direct Line-of-Sight	-10	243	-56	3	46	
			Bar bender and cutter (electric)	CNP 021	1	90	100%	No Direct Line-of-Sight	-10	243	-56	3	27	
			Poker, vibratory, hand-held	CNP 170	2	113	100%	No Direct Line-of-Sight	-10	243	-56	3	53	
		Concrete lorry mixer	CNP 044	2	109	100%	No Direct Line-of-Sight	-10	243	-56	3	49		
<b>CNL at NAP dB(A)<sup>[4]</sup></b>												<b>58</b>		
C3	Superstructure	C3.A	Crane, mobile/barge mounted (diesel)	CNP 048	1	112	100%	No Direct Line-of-Sight	-10	243	-56	3	49	50
			Winch (petrol)	CNP 263	1	102	100%	No Direct Line-of-Sight	-10	243	-56	3	39	
		C3.B	Crane, mobile/barge mounted (diesel)	CNP 048	1	112	100%	No Direct Line-of-Sight	-10	243	-56	3	49	55
			Winch (electric)	CNP 262	1	95	100%	No Direct Line-of-Sight	-10	243	-56	3	32	
			Generator, standard	CNP 101	2	108	100%	No Direct Line-of-Sight	-10	243	-56	3	48	
			Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	100%	No Direct Line-of-Sight	-10	243	-56	3	42	
			Excavator/loader, wheeled/tracked	CNP 081	2	112	100%	No Direct Line-of-Sight	-10	243	-56	3	52	
		C3.C	Concrete pump, stationary/lorry mounted	CNP 047	1	109	100%	No Direct Line-of-Sight	-10	243	-56	3	46	56
			Concrete lorry mixer	CNP 044	1	109	100%	No Direct Line-of-Sight	-10	243	-56	3	46	
			Poker, vibratory, hand-held	CNP 170	2	113	100%	No Direct Line-of-Sight	-10	243	-56	3	53	
			Generator, standard	CNP 101	2	108	100%	No Direct Line-of-Sight	-10	243	-56	3	48	
		C3.D	Generator, standard	CNP 101	2	108	100%	No Direct Line-of-Sight	-10	243	-56	3	48	48
			Bar bender and cutter (electric)	CNP 021	1	90	100%	No Direct Line-of-Sight	-10	243	-56	3	27	
		C3.E	Asphalt paver	CNP 004	1	109	100%	No Direct Line-of-Sight	-10	243	-56	3	46	49
			Roller, vibratory	CNP 186	1	108	100%	No Direct Line-of-Sight	-10	243	-56	3	45	
<b>CNL at NAP dB(A)<sup>[4]</sup></b>												<b>56</b>		

Notes:  
 [1]: PMEs in each works group are assigned to sub-groups by considering the work process, such that each sub-group would not take place with others at the same time.  
 [2]: The SWL is referenced to EPD website: [https://www.epd.gov.hk/epd/sites/default/files/epd/english/application\\_for\\_licences/guidance/files/OtherSWLe.pdf](https://www.epd.gov.hk/epd/sites/default/files/epd/english/application_for_licences/guidance/files/OtherSWLe.pdf)  
 [3]: The PME will be used at the exact fixed locations as shown in Figure 4.3, the nearest fixed location have been used for this assessment.  
 [4]: The highest CNL at NAP among the groups is adopted.  
 [5]: The boundary of the construction works areas are shown in Figure 4.3.

**Appendix 4.4 - Details of Construction Noise Assessment (Unmitigated Scenario)**  
**Airport Tung Chung Link Project Environmental Impact Assessment**

**Calculation of Construction Noise Level (Unmitigated Scenario) (Construction Works Area D)**  
**NAP: N09c - Tung Chung Crescent Block 5 (Point 2)**

Activity ID	Description of Activity	PME			No. of PME	SWL dB(A)/unit	% on time	Type of Noise Screening	Screening Correction dB(A)	Horizontal Distance, m	Distance Correction, dB(A)	Façade Correction dB(A)	CNL at NAP dB(A) from each PME	CNL at NAP dB(A)
		Group <sup>[1]</sup>	Description	TM or other ref.										
D1	Site Establishment	D1.A	Excavator/loader, wheeled/tracked	CNP 081	1	112	100%	No Direct Line-of-Sight	-10	313	-58	3	47	58
			Dump truck, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	70%	No Direct Line-of-Sight	-10	313	-58	3	39	
			Piling, vibrating hammer <sup>[2]</sup>	EPD	1	115	100%	No Direct Line-of-Sight	-10	313	-58	3	50	
			Breaker, excavator mounted (hydraulic)	CNP 028	1	122	100%	No Direct Line-of-Sight	-10	313	-58	3	57	
			Generator, standard	CNP 101	1	108	100%	No Direct Line-of-Sight	-10	313	-58	3	43	
			<b>CNL at NAP dB(A)</b>											
D2	Substructure	D2.A	Piling, large diameter bored, grab and chisel <sup>[3]</sup>	CNP 164	1	115	70%	No Direct Line-of-Sight	-10	304	-58	3	49	53
			Air Compressor, air flow > 10m <sup>3</sup> /min and < 30m <sup>3</sup> /min	CNP 002	1	102	70%	No Direct Line-of-Sight	-10	313	-58	3	36	
			Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	70%	No Direct Line-of-Sight	-10	313	-58	3	39	
			Excavator/loader, wheeled/tracked	CNP 081	1	112	100%	No Direct Line-of-Sight	-10	313	-58	3	47	
			Crane, mobile/barge mounted (diesel)	CNP 048	1	112	70%	No Direct Line-of-Sight	-10	313	-58	3	46	
			Generator, standard	CNP 101	1	108	100%	No Direct Line-of-Sight	-10	313	-58	3	43	
			Water pump (electric)	CNP 281	2	88	100%	No Direct Line-of-Sight	-10	313	-58	3	26	
		D2.B	Piling, large diameter bored, oscillator <sup>[3]</sup>	CNP 165	1	115	70%	No Direct Line-of-Sight	-10	304	-58	3	49	53
			Air Compressor, air flow > 10m <sup>3</sup> /min and < 30m <sup>3</sup> /min	CNP 002	1	102	70%	No Direct Line-of-Sight	-10	313	-58	3	36	
			Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	70%	No Direct Line-of-Sight	-10	313	-58	3	39	
			Excavator/loader, wheeled/tracked	CNP 081	1	112	100%	No Direct Line-of-Sight	-10	313	-58	3	47	
			Crane, mobile/barge mounted (diesel)	CNP 048	1	112	70%	No Direct Line-of-Sight	-10	313	-58	3	46	
			Generator, standard	CNP 101	1	108	100%	No Direct Line-of-Sight	-10	313	-58	3	43	
		D2.C	Piling, large diameter bored, reverse circulation drill <sup>[3]</sup>	CNP 166	1	100	70%	No Direct Line-of-Sight	-10	304	-58	3	34	51
			Air Compressor, air flow > 10m <sup>3</sup> /min and < 30m <sup>3</sup> /min	CNP 002	1	102	70%	No Direct Line-of-Sight	-10	313	-58	3	36	
			Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	70%	No Direct Line-of-Sight	-10	313	-58	3	39	
			Excavator/loader, wheeled/tracked	CNP 081	1	112	100%	No Direct Line-of-Sight	-10	313	-58	3	47	
			Crane, mobile/barge mounted (diesel)	CNP 048	1	112	70%	No Direct Line-of-Sight	-10	313	-58	3	46	
			Generator, standard	CNP 101	1	108	100%	No Direct Line-of-Sight	-10	313	-58	3	43	
			Water pump (electric)	CNP 281	2	88	100%	No Direct Line-of-Sight	-10	313	-58	3	26	
		D2.D	Crane, mobile/barge mounted (diesel)	CNP 048	1	112	100%	No Direct Line-of-Sight	-10	313	-58	3	47	56
			Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	100%	No Direct Line-of-Sight	-10	313	-58	3	40	
			Excavator/loader, wheeled/tracked	CNP 081	2	112	100%	No Direct Line-of-Sight	-10	313	-58	3	50	
			Generator, standard	CNP 101	1	108	100%	No Direct Line-of-Sight	-10	313	-58	3	43	
			Water pump (electric)	CNP 281	2	88	100%	No Direct Line-of-Sight	-10	313	-58	3	26	
			Concrete pump, stationary/lorry mounted	CNP 047	1	109	100%	No Direct Line-of-Sight	-10	313	-58	3	44	
			Bar bender and cutter (electric)	CNP 021	1	90	100%	No Direct Line-of-Sight	-10	313	-58	3	25	
			Poker, vibratory, hand-held	CNP 170	2	113	100%	No Direct Line-of-Sight	-10	313	-58	3	51	
		Concrete lorry mixer	CNP 044	2	109	100%	No Direct Line-of-Sight	-10	313	-58	3	47		
		<b>CNL at NAP dB(A)<sup>[4]</sup></b>												<b>56</b>
D3	Superstructure	D3.A	Crane, mobile/barge mounted (diesel)	CNP 048	1	112	100%	No Direct Line-of-Sight	-10	313	-58	3	47	48
			Winch (petrol)	CNP 263	1	102	100%	No Direct Line-of-Sight	-10	313	-58	3	37	
		D3.B	Crane, mobile/barge mounted (diesel)	CNP 048	1	112	100%	No Direct Line-of-Sight	-10	313	-58	3	47	53
			Winch (electric)	CNP 262	1	95	100%	No Direct Line-of-Sight	-10	313	-58	3	30	
			Generator, standard	CNP 101	2	108	100%	No Direct Line-of-Sight	-10	313	-58	3	46	
			Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	100%	No Direct Line-of-Sight	-10	313	-58	3	40	
			Excavator/loader, wheeled/tracked	CNP 081	2	112	100%	No Direct Line-of-Sight	-10	313	-58	3	50	
		D3.C	Concrete pump, stationary/lorry mounted	CNP 047	1	109	100%	No Direct Line-of-Sight	-10	313	-58	3	44	53
			Concrete lorry mixer	CNP 044	1	109	100%	No Direct Line-of-Sight	-10	313	-58	3	44	
			Poker, vibratory, hand-held	CNP 170	2	113	100%	No Direct Line-of-Sight	-10	313	-58	3	51	
			Generator, standard	CNP 101	2	108	100%	No Direct Line-of-Sight	-10	313	-58	3	46	
		D3.D	Generator, standard	CNP 101	2	108	100%	No Direct Line-of-Sight	-10	313	-58	3	46	46
			Bar bender and cutter (electric)	CNP 021	1	90	100%	No Direct Line-of-Sight	-10	313	-58	3	25	
		D3.E	Asphalt paver	CNP 004	1	109	100%	No Direct Line-of-Sight	-10	313	-58	3	44	47
Roller, vibratory	CNP 186		1	108	100%	No Direct Line-of-Sight	-10	313	-58	3	43			
<b>CNL at NAP dB(A)<sup>[4]</sup></b>												<b>53</b>		

**Notes:**  
[1]: PMEs in each works group are assigned to sub-groups by considering the work process, such that each sub-group would not take place with others at the same time.  
[2]: The SWL is referenced to EPD website: [https://www.epd.gov.hk/epd/sites/default/files/epd/english/application\\_for\\_licences/guidance/files/OtherSWLe.pdf](https://www.epd.gov.hk/epd/sites/default/files/epd/english/application_for_licences/guidance/files/OtherSWLe.pdf)  
[3]: The PME will be used at the exact fixed locations as shown in Figure 4.3, the nearest fixed location have been used for this assessment.  
[4]: The highest CNL at NAP among the groups is adopted.  
[5]: The boundary of the construction works areas are shown in Figure 4.3.

**Appendix 4.4 - Details of Construction Noise Assessment (Unmitigated Scenario)**  
**Airport Tung Chung Link Project Environmental Impact Assessment**

**Calculation of Construction Noise Level (Unmitigated Scenario) (Construction Works Area E)**

**NAP: N09c - Tung Chung Crescent Block 5 (Point 2)**

Activity ID	Description of Activity	PME		No. of PME	SWL dB(A)/unit	% on time	Type of Noise Screening	Screening Correction dB(A)	Horizontal Distance, m	Distance Correction, dB(A)	Façade Correction dB(A)	CNL at NAP dB(A) from each PME	CNL at NAP dB(A)	
		Group <sup>[1]</sup>	Description											TM or other ref.
E1	Site Establishment	E1.A	Excavator/loader, wheeled/tracked	CNP 081	1	112	100%	No Direct Line-of-Sight	-10	391	-60	3	45	56
			Generator, standard	CNP 101	1	108	100%	No Direct Line-of-Sight	-10	391	-60	3	41	
			Dump truck, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	70%	No Direct Line-of-Sight	-10	391	-60	3	37	
			Piling, vibrating hammer <sup>[2]</sup>	EPD	1	115	100%	No Direct Line-of-Sight	-10	391	-60	3	48	
			Breaker, excavator mounted (hydraulic)	CNP 028	1	122	100%	No Direct Line-of-Sight	-10	391	-60	3	55	
			<b>CNL at NAP dB(A)</b>											
E2	Substructure	E2.A	Piling, large diameter bored, reverse circulation drill <sup>[3]</sup>	CNP 166	1	100	70%	No Direct Line-of-Sight	-10	403	-60	3	31	55
			Piling, large diameter bored, oscillator <sup>[3]</sup>	CNP 165	1	115	70%	No Direct Line-of-Sight	-10	403	-60	3	46	
			Air Compressor, air flow > 10m <sup>3</sup> /min and < 30m <sup>3</sup> /min	CNP 002	1	102	100%	No Direct Line-of-Sight	-10	391	-60	3	35	
			Crane, mobile/barge mounted (diesel)	CNP 048	1	112	100%	No Direct Line-of-Sight	-10	391	-60	3	45	
			Generator, standard	CNP 101	1	108	100%	No Direct Line-of-Sight	-10	391	-60	3	41	
			Piling, large diameter bored, grab and chisel <sup>[3]</sup>	CNP 164	1	115	70%	No Direct Line-of-Sight	-10	403	-60	3	46	
			Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	100%	No Direct Line-of-Sight	-10	391	-60	3	38	
			Concrete pump, stationary/lorry mounted	CNP 047	1	109	100%	No Direct Line-of-Sight	-10	391	-60	3	42	
			Concrete lorry mixer	CNP 044	2	109	100%	No Direct Line-of-Sight	-10	391	-60	3	45	
			Bar bender and cutter (electric)	CNP 021	1	90	100%	No Direct Line-of-Sight	-10	391	-60	3	23	
			Excavator/loader, wheeled/tracked	CNP 081	1	112	100%	No Direct Line-of-Sight	-10	391	-60	3	45	
			Water pump (electric)	CNP 281	2	88	100%	No Direct Line-of-Sight	-10	391	-60	3	24	
			Poker, vibratory, hand-held	CNP 170	2	113	100%	No Direct Line-of-Sight	-10	391	-60	3	49	
<b>CNL at NAP dB(A)</b>												<b>55</b>		
E3	Superstructure	E3.A	Crane, mobile/barge mounted (diesel)	CNP 048	1	112	100%	No Direct Line-of-Sight	-10	391	-60	3	45	54
			Winch (petrol)	CNP 263	1	102	100%	No Direct Line-of-Sight	-10	391	-60	3	35	
			Winch (electric)	CNP 262	1	95	100%	No Direct Line-of-Sight	-10	391	-60	3	28	
			Generator, standard	CNP 101	2	108	100%	No Direct Line-of-Sight	-10	391	-60	3	44	
			Concrete pump, stationary/lorry mounted	CNP 047	1	109	100%	No Direct Line-of-Sight	-10	391	-60	3	42	
			Concrete lorry mixer	CNP 044	1	109	100%	No Direct Line-of-Sight	-10	391	-60	3	42	
			Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	100%	No Direct Line-of-Sight	-10	391	-60	3	38	
			Poker, vibratory, hand-held	CNP 170	2	113	100%	No Direct Line-of-Sight	-10	391	-60	3	49	
			Excavator/loader, wheeled/tracked	CNP 081	2	112	100%	No Direct Line-of-Sight	-10	391	-60	3	48	
			Bar bender and cutter (electric)	CNP 021	1	90	100%	No Direct Line-of-Sight	-10	391	-60	3	23	
			Asphalt paver	CNP 004	1	109	100%	No Direct Line-of-Sight	-10	391	-60	3	42	
			Roller, vibratory	CNP 186	1	108	100%	No Direct Line-of-Sight	-10	391	-60	3	41	
			<b>CNL at NAP dB(A)</b>											
E4	Landscape Softworks and Cycle Track	E4.A	Excavator/loader, wheeled/tracked	CNP 081	1	112	100%	No Direct Line-of-Sight	-10	391	-60	3	45	48
			Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	100%	No Direct Line-of-Sight	-10	391	-60	3	38	
			Generator, standard	CNP 101	1	108	100%	No Direct Line-of-Sight	-10	391	-60	3	41	
			Compactor, vibratory	CNP 050	1	105	100%	No Direct Line-of-Sight	-10	391	-60	3	38	
<b>CNL at NAP dB(A)</b>												<b>48</b>		

**Notes:**

[1]: PMEs in each works group are assigned to sub-groups by considering the work process, such that each sub-group would not take place with others at the same time.

[2]: The SWL is referenced to EPD website: [https://www.epd.gov.hk/epd/sites/default/files/epd/english/application\\_for\\_licences/guidance/files/OtherSWLe.pdf](https://www.epd.gov.hk/epd/sites/default/files/epd/english/application_for_licences/guidance/files/OtherSWLe.pdf)

[3]: The PME will be used at the exact fixed locations as shown in Figure 4.3, the nearest fixed location have been used for this assessment.

[4]: The boundary of the construction works areas are shown in Figure 4.3.

Appendix 4.4 - Details of Construction Noise Assessment (Unmitigated Scenario)  
 Airport Tung Chung Link Project Environmental Impact Assessment

Calculation of Construction Noise Level (Unmitigated Scenario) (Construction Works Area F)  
 NAP: N09c - Tung Chung Crescent Block 5 (Point 2)

Activity ID	Description of Activity	PME		No. of PME	SWL dB(A)/unit	% on time	Type of Noise Screening	Screening Correction dB(A)	Horizontal Distance, m	Distance Correction, dB(A)	Façade Correction dB(A)	CNL at NAP dB(A) from each PME	CNL at NAP dB(A)	
		Group <sup>[1]</sup>	Description											TM or other ref.
F1	Substructure	F1.A	Piling, large diameter bored, reverse circulation drill <sup>[2]</sup>	CNP 166	1	100	70%	No Direct Line-of-Sight	-10	461	-61	3	30	49
			Air Compressor, air flow > 10m3/min and < 30m3/min	CNP 002	1	102	70%	No Direct Line-of-Sight	-10	487	-62	3	32	
			Crane, mobile/barge mounted (diesel)	CNP 048	1	112	70%	No Direct Line-of-Sight	-10	487	-62	3	42	
			Excavator, wheeled/tracked	CNP 081	1	112	100%	No Direct Line-of-Sight	-10	487	-62	3	43	
			Generator, standard	CNP 101	2	108	100%	No Direct Line-of-Sight	-10	487	-62	3	42	
			Derrick barge	CNP 061	1	104	100%	No Direct Line-of-Sight	-10	487	-62	3	35	
			Tug boat	CNP 221	1	110	100%	No Direct Line-of-Sight	-10	487	-62	3	41	
			Water pump, submersible (electric)	CNP 283	2	85	100%	No Direct Line-of-Sight	-10	487	-62	3	19	
		F1.B	Piling, large diameter bored, oscillator <sup>[2]</sup>	CNP 165	1	115	70%	No Direct Line-of-Sight	-10	461	-61	3	45	50
			Air Compressor, air flow > 10m3/min and < 30m3/min	CNP 002	1	102	70%	No Direct Line-of-Sight	-10	487	-62	3	32	
			Crane, mobile/barge mounted (diesel)	CNP 048	1	112	70%	No Direct Line-of-Sight	-10	487	-62	3	42	
			Excavator, wheeled/tracked	CNP 081	1	112	100%	No Direct Line-of-Sight	-10	487	-62	3	43	
			Generator, standard	CNP 101	2	108	100%	No Direct Line-of-Sight	-10	487	-62	3	42	
			Derrick barge	CNP 061	1	104	100%	No Direct Line-of-Sight	-10	487	-62	3	35	
			Tug boat	CNP 221	1	110	100%	No Direct Line-of-Sight	-10	487	-62	3	41	
			Water pump, submersible (electric)	CNP 283	2	85	100%	No Direct Line-of-Sight	-10	487	-62	3	19	
		F1.C	Piling, large diameter bored, grab and chisel <sup>[2]</sup>	CNP 164	1	115	70%	No Direct Line-of-Sight	-10	461	-61	3	45	50
			Air Compressor, air flow > 10m3/min and < 30m3/min	CNP 002	1	102	70%	No Direct Line-of-Sight	-10	487	-62	3	32	
			Crane, mobile/barge mounted (diesel)	CNP 048	1	112	70%	No Direct Line-of-Sight	-10	487	-62	3	42	
			Excavator, wheeled/tracked	CNP 081	1	112	100%	No Direct Line-of-Sight	-10	487	-62	3	43	
			Generator, standard	CNP 101	2	108	100%	No Direct Line-of-Sight	-10	487	-62	3	42	
			Derrick barge	CNP 061	1	104	100%	No Direct Line-of-Sight	-10	487	-62	3	35	
			Tug boat	CNP 221	1	110	100%	No Direct Line-of-Sight	-10	487	-62	3	41	
			Water pump, submersible (electric)	CNP 283	2	85	100%	No Direct Line-of-Sight	-10	487	-62	3	19	
		F1.D	Crane, mobile/barge mounted (diesel)	CNP 048	1	112	100%	No Direct Line-of-Sight	-10	487	-62	3	43	51
			Excavator/loader, wheeled/tracked	CNP 081	1	112	100%	No Direct Line-of-Sight	-10	487	-62	3	43	
			Generator, standard	CNP 101	2	108	100%	No Direct Line-of-Sight	-10	487	-62	3	42	
			Water pump, submersible (electric)	CNP 283	2	85	100%	No Direct Line-of-Sight	-10	487	-62	3	19	
			Concrete pump, stationary/lorry mounted	CNP 047	1	109	100%	No Direct Line-of-Sight	-10	487	-62	3	40	
			Concrete lorry mixer	CNP 044	1	109	100%	No Direct Line-of-Sight	-10	487	-62	3	40	
			Poker, vibratory, hand-held	CNP 170	1	113	100%	No Direct Line-of-Sight	-10	487	-62	3	44	
			Bar bender and cutter (electric)	CNP 021	1	90	100%	No Direct Line-of-Sight	-10	487	-62	3	21	
			Derrick barge	CNP 061	1	104	100%	No Direct Line-of-Sight	-10	487	-62	3	35	
			Tug boat	CNP 221	1	110	100%	No Direct Line-of-Sight	-10	487	-62	3	41	
		<b>CNL at NAP dB(A) <sup>[3]</sup></b>												<b>51</b>
		F2	Superstructure	F2.A	Crane, mobile/barge mounted (diesel)	CNP 048	1	112	100%	No Direct Line-of-Sight	-10	487	-62	3
Derrick barge	CNP 061				1	104	100%	No Direct Line-of-Sight	-10	487	-62	3	40	
Tug boat	CNP 221				1	110	100%	No Direct Line-of-Sight	-10	487	-62	3	40	
Winch (petrol)	CNP 263				1	102	100%	No Direct Line-of-Sight	-10	487	-62	3	33	
Winch (pneumatic)	CNP 261				1	110	100%	No Direct Line-of-Sight	-10	487	-62	3	41	
Generator, standard	CNP 101				2	108	100%	No Direct Line-of-Sight	-10	487	-62	3	42	
Concrete pump, stationary/lorry mounted	CNP 047				1	109	100%	No Direct Line-of-Sight	-10	487	-62	3	40	
Concrete lorry mixer	CNP 044				1	109	100%	No Direct Line-of-Sight	-10	487	-62	3	40	
Poker, vibratory, hand-held	CNP 170				2	113	100%	No Direct Line-of-Sight	-10	487	-62	3	47	
Excavator/loader, wheeled/tracked	CNP 081				2	112	100%	No Direct Line-of-Sight	-10	487	-62	3	46	
Bar bender and cutter (electric)	CNP 021				1	90	100%	No Direct Line-of-Sight	-10	487	-62	3	21	
Asphalt paver	CNP 004				1	101	100%	No Direct Line-of-Sight	-10	487	-62	3	32	
Roller, vibratory	CNP 186				1	101	100%	No Direct Line-of-Sight	-10	487	-62	3	32	
<b>CNL at NAP dB(A)</b>												<b>53</b>		

Notes:  
 [1]: PMEs in each works group are assigned to sub-groups by considering the work process, such that each sub-group would not take place with others at the same time.  
 [2]: The PME will be used at the exact fixed locations as shown in Figure 4.3, the nearest fixed location have been used for this assessment.  
 [3]: The highest CNL at NAP among the groups is adopted.  
 [4]: The boundary of the construction works areas are shown in Figure 4.3.





**Appendix 4.4 - Details of Construction Noise Assessment (Unmitigated Scenario)**  
**Airport Tung Chung Link Project Environmental Impact Assessment**

**Calculation of Construction Noise Level (Unmitigated Scenario) (Construction Works Area A)**  
**NAP: N10a - Priests' Quarters of the Planned Visitation Church Development**

Activity ID	Description of Activity	PME		No. of PME	SWL dB(A)/unit	% on time	Type of Noise Screening	Screening Correction dB(A)	Horizontal Distance, m	Distance Correction, dB(A)	Façade Correction dB(A)	CNL at NAP dB(A) from each PME	CNL at NAP dB(A)	
		Group	Description											TM or other ref.
A1	Site Establishment	A1.A	Excavator/loader, wheeled/tracked	CNP 081	1	112	100%	N/A	0	226	-55	3	60	72
			Crane, mobile/barge mounted (diesel)	CNP 048	1	112	100%	N/A	0	226	-55	3	60	
			Generator, standard	CNP 101	1	108	100%	N/A	0	226	-55	3	56	
			Breaker, excavator mounted (hydraulic)	CNP 028	1	122	100%	N/A	0	226	-55	3	70	
			Piling, vibrating hammer <sup>[1]</sup>	EPD	1	115	100%	N/A	0	226	-55	3	63	
			Dump truck, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[1]</sup>	EPD	1	105	70%	N/A	0	226	-55	3	51	
			Concrete pump, stationary/lorry mounted	CNP 047	1	109	100%	N/A	0	226	-55	3	57	
			Concrete lorry mixer	CNP 044	1	109	100%	N/A	0	226	-55	3	57	
			Poker, vibratory, hand-held	CNP 170	1	113	100%	N/A	0	226	-55	3	61	
			Asphalt paver	CNP 004	1	109	100%	N/A	0	226	-55	3	57	
			Roller, vibratory	CNP 186	1	108	100%	N/A	0	226	-55	3	56	
			Water pump (electric)	CNP 281	1	88	100%	N/A	0	226	-55	3	36	
<b>CNL at NAP dB(A)</b>												<b>72</b>		

**Notes:**

[1]: The SWL is referenced to EPD website: [https://www.epd.gov.hk/epd/sites/default/files/epd/english/application\\_for\\_licences/guidance/files/OtherSWLe.pdf](https://www.epd.gov.hk/epd/sites/default/files/epd/english/application_for_licences/guidance/files/OtherSWLe.pdf)

[2]: The boundary of the construction works areas are shown in Figure 4.3.

Appendix 4.4 - Details of Construction Noise Assessment (Unmitigated Scenario)  
 Airport Tung Chung Link Project Environmental Impact Assessment

Calculation of Construction Noise Level (Unmitigated Scenario) (Construction Works Area B)  
 NAP: N10a - Priests' Quarters of the Planned Visitation Church Development

Activity ID	Description of Activity	PME		No. of PME	SWL dB(A)/unit	% on time	Type of Noise Screening	Screening Correction dB(A)	Horizontal Distance, m	Distance Correction, dB(A)	Façade Correction dB(A)	CNL at NAP dB(A) from each PME	CNL at NAP dB(A)	
		Group <sup>[1]</sup>	Description											TM or other ref.
B1	Site Establishment	B1.A	Excavator/loader, wheeled/tracked	CNP 081	2	112	100%	N/A	0	93	-47	3	71	80
			Crane, mobile/barge mounted (diesel)	CNP 048	1	112	100%	N/A	0	93	-47	3	68	
			Generator, standard	CNP 101	1	108	100%	N/A	0	93	-47	3	64	
			Breaker, excavator mounted (hydraulic)	CNP 028	1	122	100%	N/A	0	93	-47	3	78	
			Piling, vibrating hammer <sup>[2]</sup>	EPD	1	115	100%	N/A	0	93	-47	3	71	
			Dump truck, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	70%	N/A	0	93	-47	3	59	
			Water pump (electric)	CNP 281	1	88	100%	N/A	0	93	-47	3	44	
<b>CNL at NAP dB(A)</b>													<b>80</b>	
B2	Substructure	B2.A	Piling, large diameter bored, grab and chisel <sup>[3]</sup>	CNP 164	1	115	70%	N/A	0	54	-43	3	74	76
			Air Compressor, air flow > 10m <sup>3</sup> /min and < 30m <sup>3</sup> /min	CNP 002	1	102	70%	N/A	0	93	-47	3	56	
			Crane, mobile/barge mounted (diesel)	CNP 048	1	112	70%	N/A	0	93	-47	3	66	
			Generator, standard	CNP 101	1	108	100%	N/A	0	93	-47	3	64	
			Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	70%	N/A	0	93	-47	3	59	
			Excavator/loader, wheeled/tracked	CNP 081	2	112	100%	N/A	0	93	-47	3	71	
			Water pump (electric)	CNP 281	2	88	100%	N/A	0	93	-47	3	47	
		B2.B	Piling, large diameter bored, oscillator <sup>[3]</sup>	CNP 165	1	115	70%	N/A	0	54	-43	3	74	76
			Air Compressor, air flow > 10m <sup>3</sup> /min and < 30m <sup>3</sup> /min	CNP 002	1	102	70%	N/A	0	93	-47	3	56	
			Crane, mobile/barge mounted (diesel)	CNP 048	1	112	70%	N/A	0	93	-47	3	66	
			Generator, standard	CNP 101	1	108	100%	N/A	0	93	-47	3	64	
			Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	70%	N/A	0	93	-47	3	59	
			Excavator/loader, wheeled/tracked	CNP 081	2	112	100%	N/A	0	93	-47	3	71	
		B2.C	Piling, large diameter bored, reverse circulation drill <sup>[3]</sup>	CNP 166	1	100	70%	N/A	0	54	-43	3	59	73
			Air Compressor, air flow > 10m <sup>3</sup> /min and < 30m <sup>3</sup> /min	CNP 002	1	102	70%	N/A	0	93	-47	3	56	
			Crane, mobile/barge mounted (diesel)	CNP 048	1	112	70%	N/A	0	93	-47	3	66	
			Generator, standard	CNP 101	1	108	100%	N/A	0	93	-47	3	64	
			Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	70%	N/A	0	93	-47	3	59	
			Excavator/loader, wheeled/tracked	CNP 081	2	112	100%	N/A	0	93	-47	3	71	
		B2.D	Water pump (electric)	CNP 281	2	88	100%	N/A	0	93	-47	3	47	76
			Crane, mobile/barge mounted (diesel)	CNP 048	1	112	100%	N/A	0	93	-47	3	68	
			Generator, standard	CNP 101	1	108	100%	N/A	0	93	-47	3	64	
			Concrete pump, stationary/lorry mounted	CNP 047	1	109	100%	N/A	0	93	-47	3	65	
			Concrete lorry mixer	CNP 044	2	109	100%	N/A	0	93	-47	3	68	
			Poker, vibratory, hand-held	CNP 170	2	113	100%	N/A	0	93	-47	3	72	
			Bar bender and cutter (electric)	CNP 021	1	90	100%	N/A	0	93	-47	3	46	
			Excavator/loader, wheeled/tracked	CNP 081	2	112	100%	N/A	0	93	-47	3	71	
			Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	100%	N/A	0	93	-47	3	61	
Water pump (electric)	CNP 281		2	88	100%	N/A	0	93	-47	3	47			
<b>CNL at NAP dB(A) <sup>[5]</sup></b>													<b>76</b>	
B3	Superstructure	B3.A	Crane, mobile/barge mounted (diesel)	CNP 048	1	112	100%	N/A	0	93	-47	3	68	77
			Generator, standard	CNP 101	2	108	100%	N/A	0	93	-47	3	67	
			Concrete pump, stationary/lorry mounted	CNP 047	1	109	100%	N/A	0	93	-47	3	65	
			Concrete lorry mixer	CNP 044	1	109	100%	N/A	0	93	-47	3	65	
			Poker, vibratory, hand-held	CNP 170	2	113	100%	N/A	0	93	-47	3	72	
			Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	100%	N/A	0	93	-47	3	61	
			Excavator/loader, wheeled/tracked	CNP 081	2	112	100%	N/A	0	93	-47	3	71	
			Bar bender and cutter (electric)	CNP 021	1	90	100%	N/A	0	93	-47	3	46	
			Asphalt paver	CNP 004	1	109	100%	N/A	0	93	-47	3	65	
			Roller, vibratory	CNP 186	1	108	100%	N/A	0	93	-47	3	64	
<b>CNL at NAP dB(A)</b>													<b>77</b>	
B4	Building Service and Finishes	B4.A	Generator, standard	CNP 101	1	108	100%	N/A	0	93	-47	3	64	68
			Cherry picker <sup>[4]</sup>	Ref: AEIAR-173/2013	2	107	100%	N/A	0	93	-47	3	66	
<b>CNL at NAP dB(A)</b>													<b>68</b>	

Notes:  
 [1]: PMEs in each works group are assigned to sub-groups by considering the work process, such that each sub-group would not take place with others at the same time.  
 [2]: The SWL is referenced to EPD website: [https://www.epd.gov.hk/epd/sites/default/files/epd/english/application\\_for\\_licences/guidance/files/OtherSWLe.pdf](https://www.epd.gov.hk/epd/sites/default/files/epd/english/application_for_licences/guidance/files/OtherSWLe.pdf)  
 [3]: The PME will be used at the exact fixed locations as shown in Figure 4.3, the nearest fixed location have been used for this assessment.  
 [4]: The SWL of the PME is referenced to the EIA report of the Tseung Kwan O – Lam Tin Tunnel and Associated Works (Register No. AEIAR-173/2013).  
 [5]: The highest CNL at NAP among the groups is adopted.  
 [6]: The boundary of the construction works areas are shown in Figure 4.3.

Appendix 4.4 - Details of Construction Noise Assessment (Unmitigated Scenario)  
 Airport Tung Chung Link Project Environmental Impact Assessment

Calculation of Construction Noise Level (Unmitigated Scenario) (Construction Works Area C)  
 NAP: N10a - Priests' Quarters of the Planned Visitation Church Development

Activity ID	Description of Activity	PME			No. of PME	SWL dB(A)/unit	% on time	Type of Noise Screening	Screening Correction dB(A)	Horizontal Distance, m	Distance Correction, dB(A)	Façade Correction dB(A)	CNL at NAP dB(A) from each PME	CNL at NAP dB(A)
		Group <sup>[1]</sup>	Description	TM or other ref.										
C1	Site Establishment	C1.A	Excavator/loader, wheeled/tracked	CNP 081	1	112	100%	N/A	0	12	-30	3	85	97
			Dump truck, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	70%	N/A	0	12	-30	3	77	
			Piling, vibrating hammer <sup>[2]</sup>	EPD	1	115	100%	N/A	0	12	-30	3	88	
			Breaker, excavator mounted (hydraulic)	CNP 028	1	122	100%	N/A	0	12	-30	3	95	
			Generator, standard	CNP 101	1	108	100%	N/A	0	12	-30	3	81	
												<b>CNL at NAP dB(A)</b>	<b>97</b>	
C2	Substructure	C2.A	Piling, large diameter bored, grab and chisel <sup>[3]</sup>	CNP 164	1	115	70%	N/A	0	19	-34	3	83	90
			Air Compressor, air flow > 10m <sup>3</sup> /min and < 30m <sup>3</sup> /min	CNP 002	1	102	70%	N/A	0	12	-30	3	74	
			Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	70%	N/A	0	12	-30	3	77	
			Excavator/loader, wheeled/tracked	CNP 081	1	112	100%	N/A	0	12	-30	3	85	
			Crane, mobile/barge mounted (diesel)	CNP 048	1	112	70%	N/A	0	12	-30	3	84	
			Generator, standard	CNP 101	1	108	100%	N/A	0	12	-30	3	81	
			Water pump (electric)	CNP 281	2	88	100%	N/A	0	12	-30	3	64	
		C2.B	Piling, large diameter bored, oscillator <sup>[3]</sup>	CNP 165	1	115	70%	N/A	0	19	-34	3	83	90
			Air Compressor, air flow > 10m <sup>3</sup> /min and < 30m <sup>3</sup> /min	CNP 002	1	102	70%	N/A	0	12	-30	3	74	
			Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	70%	N/A	0	12	-30	3	77	
			Excavator/loader, wheeled/tracked	CNP 081	1	112	100%	N/A	0	12	-30	3	85	
			Crane, mobile/barge mounted (diesel)	CNP 048	1	112	70%	N/A	0	12	-30	3	84	
			Generator, standard	CNP 101	1	108	100%	N/A	0	12	-30	3	81	
			Water pump (electric)	CNP 281	2	88	100%	N/A	0	12	-30	3	64	
		C2.C	Piling, large diameter bored, reverse circulation drill <sup>[3]</sup>	CNP 166	1	100	70%	N/A	0	19	-34	3	68	89
			Air Compressor, air flow > 10m <sup>3</sup> /min and < 30m <sup>3</sup> /min	CNP 002	1	102	70%	N/A	0	12	-30	3	74	
			Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	70%	N/A	0	12	-30	3	77	
			Excavator/loader, wheeled/tracked	CNP 081	1	112	100%	N/A	0	12	-30	3	85	
			Crane, mobile/barge mounted (diesel)	CNP 048	1	112	70%	N/A	0	12	-30	3	84	
			Generator, standard	CNP 101	1	108	100%	N/A	0	12	-30	3	81	
			Water pump (electric)	CNP 281	2	88	100%	N/A	0	12	-30	3	64	
		C2.D	Crane, mobile/barge mounted (diesel)	CNP 048	1	112	100%	N/A	0	12	-30	3	85	94
			Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	100%	N/A	0	12	-30	3	78	
			Excavator/loader, wheeled/tracked	CNP 081	2	112	100%	N/A	0	12	-30	3	88	
			Generator, standard	CNP 101	1	108	100%	N/A	0	12	-30	3	81	
			Water pump (electric)	CNP 281	2	88	100%	N/A	0	12	-30	3	64	
			Concrete pump, stationary/lorry mounted	CNP 047	1	109	100%	N/A	0	12	-30	3	82	
			Bar bender and cutter (electric)	CNP 021	1	90	100%	N/A	0	12	-30	3	63	
Poker, vibratory, hand-held	CNP 170		2	113	100%	N/A	0	12	-30	3	89			
Concrete lorry mixer	CNP 044	2	109	100%	N/A	0	12	-30	3	85				
												<b>CNL at NAP dB(A)<sup>[4]</sup></b>	<b>94</b>	
C3	Superstructure	C3.A	Crane, mobile/barge mounted (diesel)	CNP 048	1	112	100%	N/A	0	12	-30	3	85	86
			Winch (petrol)	CNP 263	1	102	100%	N/A	0	12	-30	3	75	
		C3.B	Crane, mobile/barge mounted (diesel)	CNP 048	1	112	100%	N/A	0	12	-30	3	85	91
			Winch (electric)	CNP 262	1	95	100%	N/A	0	12	-30	3	68	
			Generator, standard	CNP 101	2	108	100%	N/A	0	12	-30	3	84	
			Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	100%	N/A	0	12	-30	3	78	
			Excavator/loader, wheeled/tracked	CNP 081	2	112	100%	N/A	0	12	-30	3	88	
		C3.C	Concrete pump, stationary/lorry mounted	CNP 047	1	109	100%	N/A	0	12	-30	3	82	92
			Concrete lorry mixer	CNP 044	1	109	100%	N/A	0	12	-30	3	82	
			Poker, vibratory, hand-held	CNP 170	2	113	100%	N/A	0	12	-30	3	89	
			Generator, standard	CNP 101	2	108	100%	N/A	0	12	-30	3	84	
		C3.D	Generator, standard	CNP 101	2	108	100%	N/A	0	12	-30	3	84	84
			Bar bender and cutter (electric)	CNP 021	1	90	100%	N/A	0	12	-30	3	63	
		C3.E	Asphalt paver	CNP 004	1	109	100%	N/A	0	12	-30	3	82	85
			Roller, vibratory	CNP 186	1	108	100%	N/A	0	12	-30	3	81	
												<b>CNL at NAP dB(A)<sup>[4]</sup></b>	<b>92</b>	

Notes:  
 [1]: PMEs in each works group are assigned to sub-groups by considering the work process, such that each sub-group would not take place with others at the same time.  
 [2]: The SWL is referenced to EPD website: [https://www.epd.gov.hk/epd/sites/default/files/epd/english/application\\_for\\_licences/guidance/files/OtherSWLe.pdf](https://www.epd.gov.hk/epd/sites/default/files/epd/english/application_for_licences/guidance/files/OtherSWLe.pdf)  
 [3]: The PME will be used at the exact fixed locations as shown in Figure 4.3, the nearest fixed location have been used for this assessment.  
 [4]: The highest CNL at NAP among the groups is adopted.  
 [5]: The boundary of the construction works areas are shown in Figure 4.3.

**Appendix 4.4 - Details of Construction Noise Assessment (Unmitigated Scenario)**  
**Airport Tung Chung Link Project Environmental Impact Assessment**

**Calculation of Construction Noise Level (Unmitigated Scenario) (Construction Works Area D)**  
**NAP: N10a - Priests' Quarters of the Planned Visitation Church Development**

Activity ID	Description of Activity	PME			No. of PME	SWL dB(A)/unit	% on time	Type of Noise Screening	Screening Correction dB(A)	Horizontal Distance, m	Distance Correction, dB(A)	Façade Correction dB(A)	CNL at NAP dB(A) from each PME	CNL at NAP dB(A)		
		Group <sup>[1]</sup>	Description	TM or other ref.												
D1	Site Establishment	D1.A	Excavator/loader, wheeled/tracked	CNP 081	1	112	100%	N/A	0	61	-44	3	71	83		
			Dump truck, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	70%	N/A	0	61	-44	3	63			
			Piling, vibrating hammer <sup>[2]</sup>	EPD	1	115	100%	N/A	0	61	-44	3	74			
			Breaker, excavator mounted (hydraulic)	CNP 028	1	122	100%	N/A	0	61	-44	3	81			
			Generator, standard	CNP 101	1	108	100%	N/A	0	61	-44	3	67			
			<b>CNL at NAP dB(A)</b>												<b>83</b>	
D2	Substructure	D2.A	Piling, large diameter bored, grab and chisel <sup>[3]</sup>	CNP 164	1	115	70%	N/A	0	67	-44	3	72	77		
			Air Compressor, air flow > 10m <sup>3</sup> /min and < 30m <sup>3</sup> /min	CNP 002	1	102	70%	N/A	0	61	-44	3	60			
			Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	70%	N/A	0	61	-44	3	63			
			Excavator/loader, wheeled/tracked	CNP 081	1	112	100%	N/A	0	61	-44	3	71			
			Crane, mobile/barge mounted (diesel)	CNP 048	1	112	70%	N/A	0	61	-44	3	70			
			Generator, standard	CNP 101	1	108	100%	N/A	0	61	-44	3	67			
			Water pump (electric)	CNP 281	2	88	100%	N/A	0	61	-44	3	50			
		D2.B	Piling, large diameter bored, oscillator <sup>[3]</sup>	CNP 165	1	115	70%	N/A	0	67	-44	3	72	77		
			Air Compressor, air flow > 10m <sup>3</sup> /min and < 30m <sup>3</sup> /min	CNP 002	1	102	70%	N/A	0	61	-44	3	60			
			Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	70%	N/A	0	61	-44	3	63			
			Excavator/loader, wheeled/tracked	CNP 081	1	112	100%	N/A	0	61	-44	3	71			
			Crane, mobile/barge mounted (diesel)	CNP 048	1	112	70%	N/A	0	61	-44	3	70			
			Generator, standard	CNP 101	1	108	100%	N/A	0	61	-44	3	67			
		D2.C	Piling, large diameter bored, reverse circulation drill <sup>[3]</sup>	CNP 166	1	100	70%	N/A	0	67	-44	3	57	75		
			Air Compressor, air flow > 10m <sup>3</sup> /min and < 30m <sup>3</sup> /min	CNP 002	1	102	70%	N/A	0	61	-44	3	60			
			Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	70%	N/A	0	61	-44	3	63			
			Excavator/loader, wheeled/tracked	CNP 081	1	112	100%	N/A	0	61	-44	3	71			
			Crane, mobile/barge mounted (diesel)	CNP 048	1	112	70%	N/A	0	61	-44	3	70			
			Generator, standard	CNP 101	1	108	100%	N/A	0	61	-44	3	67			
			Water pump (electric)	CNP 281	2	88	100%	N/A	0	61	-44	3	50			
		D2.D	Crane, mobile/barge mounted (diesel)	CNP 048	1	112	100%	N/A	0	61	-44	3	71	80		
			Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	100%	N/A	0	61	-44	3	64			
			Excavator/loader, wheeled/tracked	CNP 081	2	112	100%	N/A	0	61	-44	3	74			
			Generator, standard	CNP 101	1	108	100%	N/A	0	61	-44	3	67			
			Water pump (electric)	CNP 281	2	88	100%	N/A	0	61	-44	3	50			
			Concrete pump, stationary/lorry mounted	CNP 047	1	109	100%	N/A	0	61	-44	3	68			
			Bar bender and cutter (electric)	CNP 021	1	90	100%	N/A	0	61	-44	3	49			
			Poker, vibratory, hand-held	CNP 170	2	113	100%	N/A	0	61	-44	3	75			
		Concrete lorry mixer	CNP 044	2	109	100%	N/A	0	61	-44	3	71				
		<b>CNL at NAP dB(A) <sup>[4]</sup></b>												<b>80</b>		
		D3	Superstructure	D3.A	Crane, mobile/barge mounted (diesel)	CNP 048	1	112	100%	N/A	0	61	-44	3	71	72
					Winch (petrol)	CNP 263	1	102	100%	N/A	0	61	-44	3	61	
D3.B	Crane, mobile/barge mounted (diesel)			CNP 048	1	112	100%	N/A	0	61	-44	3	71	77		
	Winch (electric)			CNP 262	1	95	100%	N/A	0	61	-44	3	54			
	Generator, standard			CNP 101	2	108	100%	N/A	0	61	-44	3	70			
	Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>			EPD	1	105	100%	N/A	0	61	-44	3	64			
	Excavator/loader, wheeled/tracked			CNP 081	2	112	100%	N/A	0	61	-44	3	74			
D3.C	Concrete pump, stationary/lorry mounted			CNP 047	1	109	100%	N/A	0	61	-44	3	68	78		
	Concrete lorry mixer			CNP 044	1	109	100%	N/A	0	61	-44	3	68			
	Poker, vibratory, hand-held			CNP 170	2	113	100%	N/A	0	61	-44	3	75			
	Generator, standard			CNP 101	2	108	100%	N/A	0	61	-44	3	70			
D3.D	Generator, standard			CNP 101	2	108	100%	N/A	0	61	-44	3	70	70		
	Bar bender and cutter (electric)			CNP 021	1	90	100%	N/A	0	61	-44	3	49			
D3.E	Asphalt paver			CNP 004	1	109	100%	N/A	0	61	-44	3	68	71		
	Roller, vibratory			CNP 186	1	108	100%	N/A	0	61	-44	3	67			
<b>CNL at NAP dB(A) <sup>[4]</sup></b>												<b>78</b>				

**Notes:**  
[1]: PMEs in each works group are assigned to sub-groups by considering the work process, such that each sub-group would not take place with others at the same time.  
[2]: The SWL is referenced to EPD website: [https://www.epd.gov.hk/epd/sites/default/files/epd/english/application\\_for\\_licences/guidance/files/OtherSWLe.pdf](https://www.epd.gov.hk/epd/sites/default/files/epd/english/application_for_licences/guidance/files/OtherSWLe.pdf)  
[3]: The PME will be used at the exact fixed locations as shown in Figure 4.3, the nearest fixed location have been used for this assessment.  
[4]: The highest CNL at NAP among the groups is adopted.  
[5]: The boundary of the construction works areas are shown in Figure 4.3.

Appendix 4.4 - Details of Construction Noise Assessment (Unmitigated Scenario)  
 Airport Tung Chung Link Project Environmental Impact Assessment

Calculation of Construction Noise Level (Unmitigated Scenario) (Construction Works Area E)  
 NAP: N10a - Priests' Quarters of the Planned Visitation Church Development

Activity ID	Description of Activity	PME		No. of PME	SWL dB(A)/unit	% on time	Type of Noise Screening	Screening Correction dB(A)	Horizontal Distance, m	Distance Correction, dB(A)	Façade Correction dB(A)	CNL at NAP dB(A) from each PME	CNL at NAP dB(A)	
		Group <sup>[1]</sup>	Description											TM or other ref.
E1	Site Establishment	E1.A	Excavator/loader, wheeled/tracked	CNP 081	1	112	100%	N/A	0	215	-55	3	60	72
			Generator, standard	CNP 101	1	108	100%	N/A	0	215	-55	3	56	
			Dump truck, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	70%	N/A	0	215	-55	3	52	
			Piling, vibrating hammer <sup>[2]</sup>	EPD	1	115	100%	N/A	0	215	-55	3	63	
			Breaker, excavator mounted (hydraulic)	CNP 028	1	122	100%	N/A	0	215	-55	3	70	
<b>CNL at NAP dB(A)</b>												<b>72</b>		
E2	Substructure	E2.A	Piling, large diameter bored, reverse circulation drill <sup>[3]</sup>	CNP 166	1	100	70%	N/A	0	188	-53	3	48	71
			Piling, large diameter bored, oscillator <sup>[3]</sup>	CNP 165	1	115	70%	N/A	0	188	-53	3	63	
			Air Compressor, air flow > 10m <sup>3</sup> /min and < 30m <sup>3</sup> /min	CNP 002	1	102	100%	N/A	0	215	-55	3	50	
			Crane, mobile/barge mounted (diesel)	CNP 048	1	112	100%	N/A	0	215	-55	3	60	
			Generator, standard	CNP 101	1	108	100%	N/A	0	215	-55	3	56	
			Piling, large diameter bored, grab and chisel <sup>[3]</sup>	CNP 164	1	115	70%	N/A	0	188	-53	3	63	
			Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	100%	N/A	0	215	-55	3	53	
			Concrete pump, stationary/lorry mounted	CNP 047	1	109	100%	N/A	0	215	-55	3	57	
			Concrete lorry mixer	CNP 044	2	109	100%	N/A	0	215	-55	3	60	
			Bar bender and cutter (electric)	CNP 021	1	90	100%	N/A	0	215	-55	3	38	
			Excavator/loader, wheeled/tracked	CNP 081	1	112	100%	N/A	0	215	-55	3	60	
			Water pump (electric)	CNP 281	2	88	100%	N/A	0	215	-55	3	39	
			Poker, vibratory, hand-held	CNP 170	2	113	100%	N/A	0	215	-55	3	64	
<b>CNL at NAP dB(A)</b>												<b>71</b>		
E3	Superstructure	E3.A	Crane, mobile/barge mounted (diesel)	CNP 048	1	112	100%	N/A	0	215	-55	3	60	70
			Winch (petrol)	CNP 263	1	102	100%	N/A	0	215	-55	3	50	
			Winch (electric)	CNP 262	1	95	100%	N/A	0	215	-55	3	43	
			Generator, standard	CNP 101	2	108	100%	N/A	0	215	-55	3	59	
			Concrete pump, stationary/lorry mounted	CNP 047	1	109	100%	N/A	0	215	-55	3	57	
			Concrete lorry mixer	CNP 044	1	109	100%	N/A	0	215	-55	3	57	
			Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	100%	N/A	0	215	-55	3	53	
			Poker, vibratory, hand-held	CNP 170	2	113	100%	N/A	0	215	-55	3	64	
			Excavator/loader, wheeled/tracked	CNP 081	2	112	100%	N/A	0	215	-55	3	63	
			Bar bender and cutter (electric)	CNP 021	1	90	100%	N/A	0	215	-55	3	38	
			Asphalt paver	CNP 004	1	109	100%	N/A	0	215	-55	3	57	
			Roller, vibratory	CNP 186	1	108	100%	N/A	0	215	-55	3	56	
<b>CNL at NAP dB(A)</b>												<b>70</b>		
E4	Landscape Softworks and Cycle Track	E4.A	Excavator/loader, wheeled/tracked	CNP 081	1	112	100%	N/A	0	215	-55	3	60	63
			Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne <sup>[2]</sup>	EPD	1	105	100%	N/A	0	215	-55	3	53	
			Generator, standard	CNP 101	1	108	100%	N/A	0	215	-55	3	56	
			Compactor, vibratory	CNP 050	1	105	100%	N/A	0	215	-55	3	53	
<b>CNL at NAP dB(A)</b>												<b>63</b>		

Notes:  
 [1]: PMEs in each works group are assigned to sub-groups by considering the work process, such that each sub-group would not take place with others at the same time.  
 [2]: The SWL is referenced to EPD website: [https://www.epd.gov.hk/epd/sites/default/files/epd/english/application\\_for\\_licences/guidance/files/OtherSWLe.pdf](https://www.epd.gov.hk/epd/sites/default/files/epd/english/application_for_licences/guidance/files/OtherSWLe.pdf)  
 [3]: The PME will be used at the exact fixed locations as shown in Figure 4.3, the nearest fixed location have been used for this assessment.  
 [4]: The boundary of the construction works areas are shown in Figure 4.3.

Appendix 4.4 - Details of Construction Noise Assessment (Unmitigated Scenario)  
 Airport Tung Chung Link Project Environmental Impact Assessment

Calculation of Construction Noise Level (Unmitigated Scenario) (Construction Works Area F)  
 NAP: N10a - Priests' Quarters of the Planned Visitation Church Development

Activity ID	Description of Activity	PME		No. of PME	SWL dB(A)/unit	% on time	Type of Noise Screening	Screening Correction dB(A)	Horizontal Distance, m	Distance Correction, dB(A)	Façade Correction dB(A)	CNL at NAP dB(A) from each PME	CNL at NAP dB(A)	
		Group <sup>[1]</sup>	Description											TM or other ref.
F1	Substructure	F1.A	Piling, large diameter bored, reverse circulation drill <sup>[2]</sup>	CNP 166	1	100	70%	N/A	0	261	-56	3	45	63
			Air Compressor, air flow > 10m <sup>3</sup> /min and < 30m <sup>3</sup> /min	CNP 002	1	102	70%	N/A	0	290	-57	3	46	
			Crane, mobile/barge mounted (diesel)	CNP 048	1	112	70%	N/A	0	290	-57	3	56	
			Excavator, wheeled/tracked	CNP 081	1	112	100%	N/A	0	290	-57	3	58	
			Generator, standard	CNP 101	2	108	100%	N/A	0	290	-57	3	57	
			Derrick barge	CNP 061	1	104	100%	N/A	0	290	-57	3	50	
			Tug boat	CNP 221	1	110	100%	N/A	0	290	-57	3	56	
			Water pump, submersible (electric)	CNP 283	2	85	100%	N/A	0	290	-57	3	34	
		F1.B	Piling, large diameter bored, oscillator <sup>[2]</sup>	CNP 165	1	115	70%	N/A	0	261	-56	3	60	65
			Air Compressor, air flow > 10m <sup>3</sup> /min and < 30m <sup>3</sup> /min	CNP 002	1	102	70%	N/A	0	290	-57	3	46	
			Crane, mobile/barge mounted (diesel)	CNP 048	1	112	70%	N/A	0	290	-57	3	56	
			Excavator, wheeled/tracked	CNP 081	1	112	100%	N/A	0	290	-57	3	58	
			Generator, standard	CNP 101	2	108	100%	N/A	0	290	-57	3	57	
			Derrick barge	CNP 061	1	104	100%	N/A	0	290	-57	3	50	
			Tug boat	CNP 221	1	110	100%	N/A	0	290	-57	3	56	
			Water pump, submersible (electric)	CNP 283	2	85	100%	N/A	0	290	-57	3	34	
		F1.C	Piling, large diameter bored, grab and chisel <sup>[2]</sup>	CNP 164	1	115	70%	N/A	0	261	-56	3	60	65
			Air Compressor, air flow > 10m <sup>3</sup> /min and < 30m <sup>3</sup> /min	CNP 002	1	102	70%	N/A	0	290	-57	3	46	
			Crane, mobile/barge mounted (diesel)	CNP 048	1	112	70%	N/A	0	290	-57	3	56	
			Excavator, wheeled/tracked	CNP 081	1	112	100%	N/A	0	290	-57	3	58	
			Generator, standard	CNP 101	2	108	100%	N/A	0	290	-57	3	57	
			Derrick barge	CNP 061	1	104	100%	N/A	0	290	-57	3	50	
			Tug boat	CNP 221	1	110	100%	N/A	0	290	-57	3	56	
			Water pump, submersible (electric)	CNP 283	2	85	100%	N/A	0	290	-57	3	34	
		F1.D	Crane, mobile/barge mounted (diesel)	CNP 048	1	112	100%	N/A	0	290	-57	3	58	65
			Excavator/loader, wheeled/tracked	CNP 081	1	112	100%	N/A	0	290	-57	3	58	
			Generator, standard	CNP 101	2	108	100%	N/A	0	290	-57	3	57	
			Water pump, submersible (electric)	CNP 283	2	85	100%	N/A	0	290	-57	3	34	
			Concrete pump, stationary/lorry mounted	CNP 047	1	109	100%	N/A	0	290	-57	3	55	
			Concrete lorry mixer	CNP 044	1	109	100%	N/A	0	290	-57	3	55	
			Poker, vibratory, hand-held	CNP 170	1	113	100%	N/A	0	290	-57	3	59	
			Bar bender and cutter (electric)	CNP 021	1	90	100%	N/A	0	290	-57	3	36	
			Derrick barge	CNP 061	1	104	100%	N/A	0	290	-57	3	50	
			Tug boat	CNP 221	1	110	100%	N/A	0	290	-57	3	56	
		<b>CNL at NAP dB(A) <sup>[3]</sup></b>												<b>65</b>
		F2	Superstructure	F2.A	Crane, mobile/barge mounted (diesel)	CNP 048	1	112	100%	N/A	0	290	-57	3
Derrick barge	CNP 061				1	104	100%	N/A	0	290	-57	3	40	
Tug boat	CNP 221				1	110	100%	N/A	0	290	-57	3	40	
Winch (petrol)	CNP 263				1	102	100%	N/A	0	290	-57	3	48	
Winch (pneumatic)	CNP 261				1	110	100%	N/A	0	290	-57	3	56	
Generator, standard	CNP 101				2	108	100%	N/A	0	290	-57	3	57	
Concrete pump, stationary/lorry mounted	CNP 047				1	109	100%	N/A	0	290	-57	3	55	
Concrete lorry mixer	CNP 044				1	109	100%	N/A	0	290	-57	3	55	
Poker, vibratory, hand-held	CNP 170				2	113	100%	N/A	0	290	-57	3	62	
Excavator/loader, wheeled/tracked	CNP 081				2	112	100%	N/A	0	290	-57	3	61	
Bar bender and cutter (electric)	CNP 021				1	90	100%	N/A	0	290	-57	3	36	
Asphalt paver	CNP 004				1	101	100%	N/A	0	290	-57	3	47	
Roller, vibratory	CNP 186				1	101	100%	N/A	0	290	-57	3	47	
<b>CNL at NAP dB(A)</b>												<b>67</b>		

Notes:  
 [1]: PMEs in each works group are assigned to sub-groups by considering the work process, such that each sub-group would not take place with others at the same time.  
 [2]: The PME will be used at the exact fixed locations as shown in Figure 4.3, the nearest fixed location have been used for this assessment.  
 [3]: The highest CNL at NAP among the groups is adopted.  
 [4]: The boundary of the construction works areas are shown in Figure 4.3.

