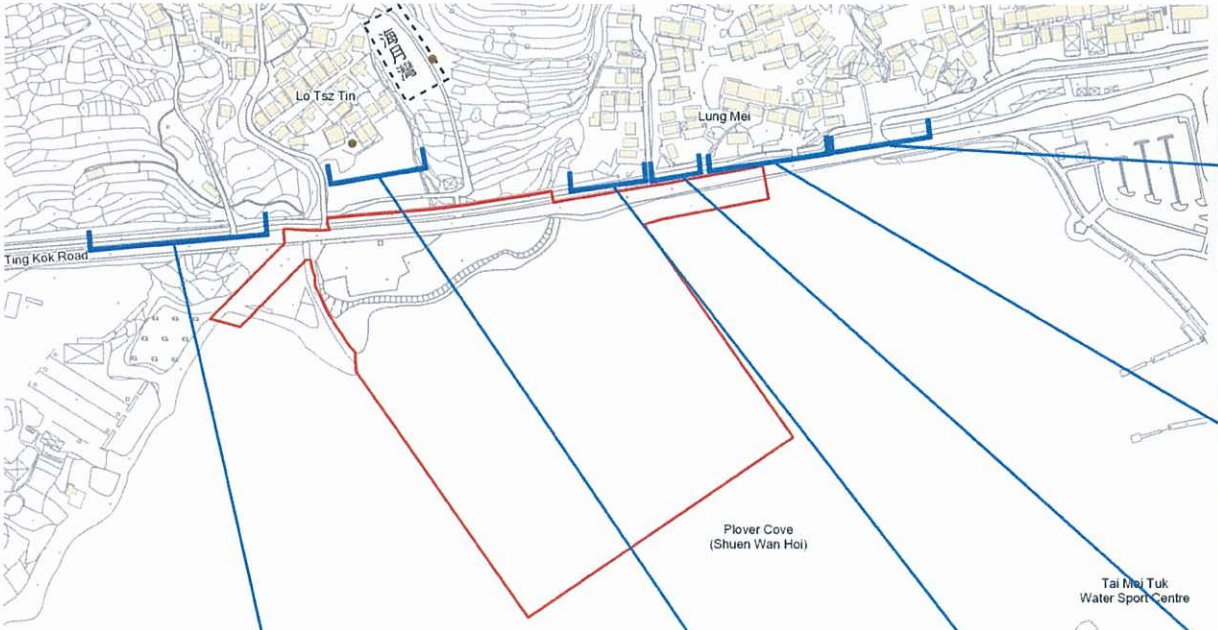
Appendix D

Noise Assessment Supporting Information

Appendix D1

Photographs showing the NSRs



CEDD CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT	Consulting Engineer: Halcrow China Ltd. / ERM Environmental Resources Management as sub-consultant	Agreement No.: CE 59/2005(EP)	ENVIRONMENTAL IMPACT ASSESSMENT REPORT	**APPENDIX D1 – FIGURE 1**
		Project Title: DEVELOPMENT OF A BATHING BEACH AT LUNG MEI, TAI PO	Figure Title: PHOTOGRAPHS OF NOISE SENSITIVE RECEIVERS	Checked: - / Scale: AS SHOWN / Rev.: 0 / Designed: - / Drawn: KK / Date: 17/05/2007

N1 - No.165A Lung Mei

N2 - No.103 Lung Mei, N2a - No.101 Lung Me

N3 - No.70 Lo Tsz Tin

N4 - No.79 Lo Tsz Tin

CEDD CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT	Consulting Engineer: Halcrow China Ltd. / ERM Environmental Resources Management as sub-consultant	Agreement No.: CE 59/2005(EP)	ENVIRONMENTAL IMPACT ASSESSMENT REPORT	**APPENDIX D1 – FIGURE 2**
		Project Title: DEVELOPMENT OF A BATHING BEACH AT LUNG MEI, TAI PO	Figure Title: PHOTOGRAPHS OF REPRESENTATIVE NOISE SENSITIVE RECEIVERS	Checked: - / Scale: AS SHOWN / Rev: 0 / Designed: - / Drawn: KK / Date: 17/05/2007

Appendix D2

Construction Programme for Noise Assessment

Appendix D2 - Preliminary Construction Programme

		2008			2009												2010											
ID	Task	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D
1	**Construction Works on Land**																											
1a	site Formation, construction of seawall, ramp, staircase, retaining walls, sump tanks for grey water system and superstructure foundation			■	■	■	■	■	■	■																		
1b	road widening at Ting Kok Road			■	■	■	■	■	■	■																		
2	**Car Park Paving**										■	■	■															
3	**Building Works**																											
3a	piling works										■																	
3b	foundation and tanking											■	■	■														
3c	superstructure														■	■	■	■										
3d	building finishes & internal fitting-out																		■	■	■	■	■	■	■	■	■	
4	**Dredging of Groynes**															■	■											
5	**Rock filling of Groynes**																	■	■	■								
6	**Box Culvert Construction**																											
6a	construction of gabion channel						■	■	■	■	■																	
6b	construction of western culvert											■	■	■														
6c	construction of eastern culvert														■													
6d	construction of 90m box culvert															■	■	■	■	■	■	■						
7	**Sand Filling**																			■	■	■						

Appendix D3

Construction Plant Inventory

Appendix D3 Construction Plant Inventory

ID	Activities	Plant	CNP/BS5228 ref.	No. of PME	% of operating time	SWL	Correction, dB(A) Operating time	Correction, dB(A) No. of Plant	Correction, dB(A) Barrier[3]	SWL, dB(A)
1	**Construction Works on Land**									
1a	*site Formation, construction of seawall, ramp, staircase, retaining walls, sump tanks for grey water system and superstructure foundation*									
	- construction of seawall & retaining wall	Mobile crane	CNP 048	1	80	112	-1	0	0	111
		Excavator	CNP 081	1	80	112	-1	0	0	111
		Lorry, 5.5ton<gross vehicle weight<38ton	--[1]	3	80	105	-1	5	0	109
									Sub-Total SWL	*115*
	- backfilling	Lorry, 5.5ton<gross vehicle weight<38ton	--[1]	3	80	105	-1	5	0	109
		Excavator	CNP 081	2	80	112	-1	3	0	114
		Roller, vibratory	CNP 186	1	50	108	-3	0	0	105
									Sub-Total SWL	*116*
	- construction of ramp, staircase, sump tanks for grey water system and superstructure foundation	Timber sawing machine	CNP 201	2	50	108	-3	3	0	108
		Bar bender and cutter (electric)	CNP 021	3	50	90	-3	5	0	92
		Electrical drill	CNP 065	5	50	98	-3	7	0	102
		Diesel generator	CNP 102	1	100	100	0	0	0	100
		Water pumps (electric)	CNP 281	2	100	88	0	3	0	91
		Vibratory Poker (electric)	--[1]	3	80	102	-1	5	0	106
		Concrete lorry mixers	CNP 044	1	80	109	-1	0	0	108
									Sub-Total SWL	*113*
									MAXIMUM SWL FOR WORK ID 1a =	*116*
1b	*road widening at Ting Kok Road*									
	- breaking existing road surface	Excavator	CNP 081	2	100	112	0	3	0	115
									Sub-Total SWL	*115*
	- drainage channel construction	Silent Piler	--[2]	1	80	100	-1	0	0	99
		Excavator	CNP 081	1	80	112	-1	0	0	111
		Mobile crane	CNP 048	1	80	112	-1	0	0	111
									Sub-Total SWL	*114*
	- manhole construction	Electrical drill	CNP 065	2	50	98	-3	3	0	98
		Diesel generator	CNP 102	2	100	100	0	3	0	103
		Timber sawing machine	CNP 201	1	50	108	-3	0	0	105
		Bar bender and cutter (electric)	CNP 021	1	50	90	-3	0	0	87
									Sub-Total SWL	*108*
	- concreting work	Concrete lorry mixers	CNP 044	1	80	109	-1	0	0	108
		Vibratory Poker (electric)	--[1]	2	80	102	-1	3	0	104
									Sub-Total SWL	*109*
	- backfilling and road formation	Compactor, vibratory	CNP 050	1	50	105	-3	0	0	102
		Road roller	CNP 185	1	50	108	-3	0	0	105
		Excavator	CNP 081	1	80	112	-1	0	0	111
									Sub-Total SWL	*112*
									MAXIMUM SWL FOR WORK ID 1b =	*115*
2	**Car Park Paving**									
	- backfilling	Lorry, 5.5ton<gross vehicle weight<38ton	--[1]	3	80	105	-1	5	0	109
		Excavator	CNP 081	2	80	112	-1	3	0	114
		Roller, vibratory	CNP 186	1	50	108	-3	0	0	105
									Sub-Total SWL	*116*
	- concreting work	Concrete lorry mixers	CNP 044	1	80	109	-1	0	0	108
		Vibratory Poker (electric)	--[1]	2	80	102	-1	3	0	104
									Sub-Total SWL	*109*
									MAXIMUM SWL FOR WORK ID 2 =	*116*
3	**Building Works**									
3a	*piling works*	Silent piler	--[2]	2	80	100	-1	3	0	102
		Excavator	CNP 081	1	80	112	-1	0	0	111
									MAXIMUM SWL FOR WORK ID 3a =	*112*
3b	*foundation and tanking*									
		Mobile crane	CNP 048	1	80	112	-1	0	0	111
		Excavator	CNP 081	1	80	112	-1	0	0	111
		Timber sawing machine	CNP 201	2	50	108	-3	3	0	108
		Bar bender and cutter (electric)	CNP 021	3	50	90	-3	5	0	92
		Electrical drill	CNP 065	5	50	98	-3	7	0	102
		Diesel generator	CNP 102	1	100	100	0	0	0	100
		Water pumps (electric)	CNP 281	2	100	88	0	3	0	91
									Sub-Total SWL	*113*
									MAXIMUM SWL FOR WORK ID 3b =	*113*

Appendix D3 Construction Plant Inventory

ID	Activities	Plant	CNP/BS5228 ref.	No. of PME	% of operating time	SWL	Correction, dB(A) Operating time	No. of Plant	Barrier[3]	SWL, dB(A)
3c	*superstructure*									
	- superstructure work	Mobile crane	CNP 048	1	80	112	-1	0	0	111
		Timber sawing machine	CNP 201	3	50	108	-3	5	0	110
		Bar bender and cutter (electric)	CNP 021	3	50	90	-3	5	0	92
		Electrical drill	CNP 065	6	50	98	-3	8	0	103
		Diesel generator	CNP 102	1	100	100	0	0	0	100
									Sub-Total SWL	*114*
	- concreting work	Concrete lorry mixers	CNP 044	1	80	109	-1	0	0	108
		Vibratory Poker (electric)	--[1]	5	80	102	-1	7	0	108
									Sub-Total SWL	*111*
									MAXIMUM SWL FOR WORK ID 3c =	*114*
3d	*building finishes & internal fitting-out*	Mobile crane	CNP 048	1	80	112	-1	0	0	111
		Timber sawing machine	CNP 201	1	50	108	-3	0	0	105
		Electrical drill	CNP 065	6	50	98	-3	8	0	103
		Diesel generator	CNP 102	1	100	100	0	0	0	100
									TOTAL SWL FOR WORK ID 3d =	*113*
4	**Dredging of Groynes**	Excavator	CNP 081	2	80	112	-1	3	0	114
		Grab Dredger	CNP 063	1	100	112	0	0	0	112
		Derrick lighter	CNP 061	1	100	104	0	0	0	104
									TOTAL SWL FOR WORK ID 4 =	*116*
5	**Rock filling of Groynes**	Lorry, 5.5ton<gross vehicle weight<38ton	--[1]	3	80	105	-1	5	0	109
		Excavator	CNP 081	2	80	112	-1	3	0	114
		Derrick lighter	CNP 061	2	80	104	-1	3	0	106
									TOTAL SWL FOR WORK ID 5 =	*116*
6	**Box Culvert Construction**									
6a	*construction of gabion channel*									
	- excavation & leveling work	Silent piler	--[2]	1	80	100	-1	0	0	99
		Excavator	CNP 081	2	80	112	-1	3	0	114
		Vibration compactor	CNP 186	1	50	108	-3	0	0	105
									Sub-Total SWL	*115*
	- placing of gabion blocks	Lorry, 5.5ton<gross vehicle weight<38ton	--[1]	1	80	105	-1	0	0	104
		Mobile crane	CNP 048	1	80	112	-1	0	0	111
									Sub-Total SWL	*112*
	- backfilling work	Vibratory compactor	CNP 050	1	50	105	-3	0	0	102
		Lorry, 5.5ton<gross vehicle weight<38ton	--[1]	1	80	105	-1	0	0	104
		Excavator	CNP 081	2	80	112	-1	3	0	114
									Sub-Total SWL	*115*
									MAXIMUM SWL FOR WORK ID 6a =	*115*
6b	*construction of western culvert*									
	- excavation work	Silent piler	--[2]	1	80	100	-1	0	0	99
		Excavator	CNP 081	1	80	112	-1	0	0	111
									Sub-Total SWL	*111*
	- construction of culvert	Timber sawing machine	CNP 201	1	50	108	-3	0	0	105
		Electrical drill	CNP 065	2	50	98	-3	3	0	98
		Diesel generator	CNP 102	2	100	100	0	3	0	103
		Water pumps (electric)	CNP 281	1	100	88	0	0	0	88
		Mobile crane	CNP 048	1	80	112	-1	0	0	111
									Sub-Total SWL	*113*
	- demolition of existing culvert	Pneumatic Breaker	CNP 027	1	80	122	-1	0	0	121
		Excavator	CNP 081	1	80	112	-1	0	0	111
									Sub-Total SWL	*121*

Appendix D3 Construction Plant Inventory

ID	Activities	Plant	CNP/BS5228 ref.	No. of PME	% of operating time	SWL	Correction, dB(A) Operating time	No. of Plant	Barrier[3]	SWL, dB(A)
	- construction of culvert top slab	Lorry, 5.5ton<gross vehicle weight<38ton	--[1]	3	80	105	-1	5	0	109
		Concrete lorry mixers	CNP 044	1	80	109	-1	0	0	108
		Timber sawing machine	CNP 201	2	50	108	-3	3	0	108
		Bar bender and cutter (electric)	CNP 021	2	50	90	-3	3	0	90
		Vibratory Poker (electric)	--[1]	2	80	102	-1	3	0	104
									Sub-Total SWL	*114*
	- slope reinstatement	Excavator	CNP 081	1	80	112	-1	0	0	111
									Sub-Total SWL	*111*
									MAXIMUM SWL FOR WORK ID 6b =	*121*
6c	*construction of eastern culvert*									
	-preparation of concrete slab surface	Electrical drill	CNP 065	2	50	98	-3	3	0	98
		Diesel generator	CNP 102	2	100	100	0	3	0	103
		Water pumps (electric)	CNP 281	2	100	88	0	3	0	91
									Sub-Total SWL	*104*
	- concreting work	Concrete lorry mixers	CNP 044	1	80	109	-1	0	0	108
		Vibratory Poker (electric)	--[1]	1	80	102	-1	0	0	101
									Sub-Total SWL	*109*
									MAXIMUM SWL FOR WORK ID 6c =	*109*
6d	*construction of 90m box culvert*									
	- excavation work	Excavator	CNP 081	1	80	112	-1	0	0	111
									Sub-Total SWL	*111*
	- erection of precast panel segment	Mobile crane	CNP 048	1	80	112	-1	0	0	111
									Sub-Total SWL	*111*
	- construction of top and bottom slab	Timber sawing machine	CNP 201	1	50	108	-3	0	0	105
		Bar bender and cutter (electric)	CNP 021	1	50	90	-3	0	0	87
		Electrical drill	CNP 065	2	50	98	-3	3	0	98
		Diesel generator	CNP 102	2	100	100	0	3	0	103
									Sub-Total SWL	*108*
	- concreting work	Vibratory Poker (electric)	--[1]	2	80	102	-1	3	0	104
		Concrete lorry mixers	CNP 044	1	80	109	-1	0	0	108
									Sub-Total SWL	*109*
	-screeding work	Concrete mixer	CNP 045	1	80	96	-1	0	0	95
		Diesel generator	CNP 102	2	100	100	0	3	0	103
									Sub-Total SWL	*104*
	- backfilling	Lorry, 5.5ton<gross vehicle weight<38ton	--[1]	1	80	105	-1	0	0	104
		Vibratory compactor	CNP 050	1	50	105	-3	0	0	102
									Sub-Total SWL	*106*
									MAXIMUM SWL FOR WORK ID 6d =	*111*
7	**Sand Filling**	Pelican barge	CNP 061	1	100	104	0	0	0	104
		Excavator	CNP 081	2	80	112	-1	3	0	114
		Backhoe	CNP 081	2	80	112	-1	3	0	114
									MAXIMUM SWL FOR WORK ID 7 =	*117*

Remarks
(1) SWL refer to the document prepared by the Noise Control Authority (http://www.epd.gov.hk/epd/english/application_for_licences/guidance/files/OtherSWLe.pdf)
(3) Reference was made to MTRC Contract C4420 Tsim Sha Tsui Station Modification, Variation of Environmental Permit, Noise assessment of GIKEN silent piler system.
(4) Barrier attenuation is obtained from site hoarding or movable noise barrier.

Appendix D4

Construction Noise Assessment (Unmitigated Scenario)

Appendix D4 - Construction Noise Assessment - Unmitigated Scenario

NSR: *N1, Village House - No.165A Lung Mei*

Distance from NSR to Notional Source Position			*Correction Factor*								
Distance from NSR to Work Site ID 1	106	m	Distance Attenuation =	-49	dB(A)	Facade =	3	dB(A)	Barrier Correction =	0	dB(A)
Distance from NSR to Work Site ID 2	176	m	Distance Attenuation =	-53	dB(A)	Facade =	3	dB(A)	Barrier Correction =	0	dB(A)
Distance from NSR to Work Site ID 3	118	m	Distance Attenuation =	-49	dB(A)	Facade =	3	dB(A)	Barrier Correction =	0	dB(A)
Distance from NSR to Work Site ID 4	124	m	Distance Attenuation =	-50	dB(A)	Facade =	3	dB(A)	Barrier Correction =	0	dB(A)
Distance from NSR to Work Site ID 5	63	m	Distance Attenuation =	-45	dB(A)	Facade =	3	dB(A)	Barrier Correction =	0	dB(A)
Distance from NSR to Work Site ID 6a & 6b	290	m	Distance Attenuation =	-57	dB(A)	Facade =	3	dB(A)	Barrier Correction =	0	dB(A)
Distance from NSR to Work Site ID 6c & 6d	29	m	Distance Attenuation =	-37	dB(A)	Facade =	3	dB(A)	Barrier Correction =	0	dB(A)
Distance from NSR to Work Site ID 7	124	m	Distance Attenuation =	-50	dB(A)	Facade =	3	dB(A)	Barrier Correction =	0	dB(A)

Construction Item		2008			2009											2010											
ID	Activity	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D
1	*Construction Works on Land*																											
1a	site Formation, construction of seawall	0	0	116	116	116	116	116	115.6	115.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1b	road widening at Ting Kok Road	0	0	115	115	115	115	115	115	115	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Total SWL	*0*	*0*	*118*	*118*	*118*	*118*	*118*	*118*	*118*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
	Noise Level at NSR (dB(A))	**0**	**0**	**73**	**73**	**73**	**73**	**73**	**73**	**73**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
2	*Car Park Paving*	0	0	0	0	0	0	0	0	0	116	116	116	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Total SWL	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*116*	*116*	*116*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
	Noise Level at NSR (dB(A))	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**66**	**66**	**66**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
3	*Building Works*																											
3a	piling works	0	0	0	0	0	0	0	0	0	112	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3b	foundation and tanking	0	0	0	0	0	0	0	0	0	0	113	113	113	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3c	superstructure	0	0	0	0	0	0	0	0	0	0	0	0	0	114	114	114	114	0	0	0	0	0	0	0	0	0	0
3d	building finishes & internal fitting-out	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	113	113	113	113	113	113	113	113	113	0
	Total SWL	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*112*	*113*	*113*	*113*	*114*	*114*	*114*	*114*	*113*	*113*	*113*	*113*	*113*	*113*	*113*	*113*	*113*	*0*
	Noise Level at NSR (dB(A))	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**65**	**67**	**67**	**67**	**68**	**68**	**68**	**68**	**66**	**66**	**66**	**66**	**66**	**66**	**66**	**66**	**66**	**0**
4	*Dredging of Groynes*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	116	116	0	0	0	0	0	0	0	0	0	0	0
	Total SWL	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*116*	*116*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
	Noise Level at NSR (dB(A))	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**70**	**70**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
5	*Rock filling of Groynes*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	116	116	116	0	0	0	0	0	0	0	0
	Total SWL	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*116*	*116*	*116*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
	Noise Level at NSR (dB(A))	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**74**	**74**	**74**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
6	*Box Culvert Construction*																											
6a	construction of gabion channel	0	0	0	0	0	115	115	115	115	115	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Noise Level at NSR (dB(A))	**0**	**0**	**0**	**0**	**0**	**60**	**60**	**60**	**60**	**60**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
6b	construction of western culvert	0	0	0	0	0	0	0	0	0	0	121	121	121	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Noise Level at NSR (dB(A))	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**67**	**67**	**67**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
6c	construction of eastern culvert	0	0	0	0	0	0	0	0	0	0	0	0	0	109	0	0	0	0	0	0	0	0	0	0	0	0	0
	Noise Level at NSR (dB(A))	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**75**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
6d	construction of 90m box culvert	0	0	0	0	0	0	0	0	0	0	0	0	0	0	111	111	111	111	111	111	111	0	0	0	0	0	0
	Noise Level at NSR (dB(A))	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**77**	**77**	**77**	**77**	**77**	**77**	**77**	**0**	**0**	**0**	**0**	**0**	**0**
7	*Sand Filling*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	117	117	117	117	0	0	0	0	0
	Total SWL	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*117*	*117*	*117*	*117*	*0*	*0*	*0*	*0*	*0*
	Noise Level at NSR (dB(A))	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**70**	**70**	**70**	**70**	**0**	**0**	**0**	**0**	**0**
OVERALL NOISE LEVEL AT NSR (dB(A))		**0**	**0**	**73**	**73**	**73**	**73**	**73**	**73**	**73**	**69**	**71**	**71**	**70**	**75**	**78**	**78**	**79**	**79**	**79**	**78**	**78**	**72**	**66**	**66**	**66**	**66**	**0**

Appendix D4 - Construction Noise Assessment - Unmitigated Scenario

NSR: *N2, Village House - No.103 Lung Mei*

Distance from NSR to Notional Source Position			*Correction Factor*						Barrier Correction =	0	dB(A)
Distance from NSR to Work Site ID 1	80	m	Distance Attenuation =	-46	dB(A)	Facade =	3	dB(A)			
Distance from NSR to Work Site ID 2	128	m	Distance Attenuation =	-50	dB(A)	Facade =	3	dB(A)			
Distance from NSR to Work Site ID 3	94	m	Distance Attenuation =	-47	dB(A)	Facade =	3	dB(A)			
Distance from NSR to Work Site ID 4	135	m	Distance Attenuation =	-51	dB(A)	Facade =	3	dB(A)			
Distance from NSR to Work Site ID 5	90	m	Distance Attenuation =	-47	dB(A)	Facade =	3	dB(A)			
Distance from NSR to Work Site ID 6a & 6b	246	m	Distance Attenuation =	-56	dB(A)	Facade =	3	dB(A)			
Distance from NSR to Work Site ID 6c & 6d	70	m	Distance Attenuation =	-45	dB(A)	Facade =	3	dB(A)			
Distance from NSR to Work Site ID 7	135	m	Distance Attenuation =	-51	dB(A)	Facade =	3	dB(A)			

Construction Item		2008			2009											2010											
ID	Activity	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D
1	*Construction Works on Land*																											
1a	site Formation, construction of seawall	0	0	116	116	116	116	116	115.6	115.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1b	road widening at Ting Kok Road	0	0	115	115	115	115	115	115	115	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Total SWL	*0*	*0*	*118*	*118*	*118*	*118*	*118*	*118*	*118*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
	Noise Level at NSR (dB(A))	**0**	**0**	**75**	**75**	**75**	**75**	**75**	**75**	**75**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
2	*Car Park Paving*	0	0	0	0	0	0	0	0	0	116	116	116	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Total SWL	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*116*	*116*	*116*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
	Noise Level at NSR (dB(A))	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	68	68	68	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
3	*Building Works*																											
3a	piling works	0	0	0	0	0	0	0	0	0	112	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3b	foundation and tanking	0	0	0	0	0	0	0	0	0	0	113	113	113	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3c	superstructure	0	0	0	0	0	0	0	0	0	0	0	0	0	114	114	114	114	0	0	0	0	0	0	0	0	0	0
3d	building finishes & internal fitting-out	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	113	113	113	113	113	113	113	113	113	0
	Total SWL	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*112*	*113*	*113*	*113*	*114*	*114*	*114*	*114*	*113*	*113*	*113*	*113*	*113*	*113*	*113*	*113*	*113*	*0*
	Noise Level at NSR (dB(A))	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	67	69	69	69	70	70	70	70	68	68	68	68	68	68	68	68	68	0
4	*Dredging of Groynes*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	116	116	0	0	0	0	0	0	0	0	0	0	0
	Total SWL	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*116*	*116*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
	Noise Level at NSR (dB(A))	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	69	69	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
5	*Rock filling of Groynes*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	116	116	116	0	0	0	0	0	0	0	0
	Total SWL	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*116*	*116*	*116*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
	Noise Level at NSR (dB(A))	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	72	72	72	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
6	*Box Culvert Construction*																											
6a	construction of gabion channel	0	0	0	0	0	115	115	115	115	115	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Noise Level at NSR (dB(A))	**0**	**0**	**0**	**0**	**0**	62	62	62	62	62	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
6b	construction of western culvert	0	0	0	0	0	0	0	0	0	0	121	121	121	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Noise Level at NSR (dB(A))	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	69	69	69	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
6c	construction of eastern culvert	0	0	0	0	0	0	0	0	0	0	0	0	0	109	0	0	0	0	0	0	0	0	0	0	0	0	0
	Noise Level at NSR (dB(A))	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	67	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
6d	construction of 90m box culvert	0	0	0	0	0	0	0	0	0	0	0	0	0	0	111	111	111	111	111	111	111	0	0	0	0	0	0
	Noise Level at NSR (dB(A))	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	69	69	69	69	69	69	69	**0**	**0**	**0**	**0**	**0**	**0**
7	*Sand Filling*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	117	117	117	117	0	0	0	0	0
	Total SWL	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*117*	*117*	*117*	*117*	*0*	*0*	*0*	*0*	*0*
	Noise Level at NSR (dB(A))	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	70	70	70	70	**0**	**0**	**0**	**0**	**0**
OVERALL NOISE LEVEL AT NSR (dB(A))		**0**	**0**	**75**	**75**	**75**	**75**	**75**	**75**	**75**	71	73	73	72	71	74	74	75	75	76	74	74	72	68	68	68	68	**0**

Appendix D4 - Construction Noise Assessment - Unmitigated Scenario

NSR: *N2a, House - No.101 Lung Mei*

Distance from NSR to Notional Source Position			*Correction Factor*							
Distance from NSR to Work Site ID 1	77	m	Distance Attenuation =	-46	dB(A)	Facade =	3	dB(A)	Barrier Correction =	0	dB(A)
Distance from NSR to Work Site ID 2	140	m	Distance Attenuation =	-51	dB(A)	Facade =	3	dB(A)	Barrier Correction =	0	dB(A)
Distance from NSR to Work Site ID 3	89	m	Distance Attenuation =	-47	dB(A)	Facade =	3	dB(A)	Barrier Correction =	0	dB(A)
Distance from NSR to Work Site ID 4	122	m	Distance Attenuation =	-50	dB(A)	Facade =	3	dB(A)	Barrier Correction =	0	dB(A)
Distance from NSR to Work Site ID 5	90	m	Distance Attenuation =	-47	dB(A)	Facade =	3	dB(A)	Barrier Correction =	0	dB(A)
Distance from NSR to Work Site ID 6a & 6b	261	m	Distance Attenuation =	-56	dB(A)	Facade =	3	dB(A)	Barrier Correction =	0	dB(A)
Distance from NSR to Work Site ID 6c & 6d	55	m	Distance Attenuation =	-43	dB(A)	Facade =	3	dB(A)	Barrier Correction =	0	dB(A)
Distance from NSR to Work Site ID 7	122	m	Distance Attenuation =	-50	dB(A)	Facade =	3	dB(A)	Barrier Correction =	0	dB(A)

Construction Item		2008			2009											2010											
ID	Activity	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D
1	*Construction Works on Land*																											
1a	site Formation, construction of seawall	0	0	116	116	116	116	116	115.6	115.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1b	road widening at Ting Kok Road	0	0	115	115	115	115	115	115	115	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Total SWL	*0*	*0*	*118*	*118*	*118*	*118*	*118*	*118*	*118*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
	Noise Level at NSR (dB(A))	**0**	**0**	**76**	**76**	**76**	**76**	**76**	**76**	**76**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
2	*Car Park Paving*	0	0	0	0	0	0	0	0	0	116	116	116	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Total SWL	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*116*	*116*	*116*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
	Noise Level at NSR (dB(A))	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	68	68	68	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
3	*Building Works*																											
3a	piling works	0	0	0	0	0	0	0	0	0	112	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3b	foundation and tanking	0	0	0	0	0	0	0	0	0	0	113	113	113	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3c	superstructure	0	0	0	0	0	0	0	0	0	0	0	0	0	114	114	114	114	0	0	0	0	0	0	0	0	0	0
3d	building finishes & internal fitting-out	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	113	113	113	113	113	113	113	113	113	0
	Total SWL	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*112*	*113*	*113*	*113*	*114*	*114*	*114*	*114*	*113*	*113*	*113*	*113*	*113*	*113*	*113*	*113*	*113*	*0*
	Noise Level at NSR (dB(A))	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	68	69	69	69	70	70	70	70	69	69	69	69	69	69	69	69	69	**0**
4	*Dredging of Groynes*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	116	116	0	0	0	0	0	0	0	0	0	0	0
	Total SWL	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*116*	*116*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
	Noise Level at NSR (dB(A))	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	70	70	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
5	*Rock filling of Groynes*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	116	116	116	0	0	0	0	0	0	0	0
	Total SWL	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*116*	*116*	*116*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
	Noise Level at NSR (dB(A))	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	72	72	72	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
6	*Box Culvert Construction*																											
6a	construction of gabion channel	0	0	0	0	0	115	115	115	115	115	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Noise Level at NSR (dB(A))	**0**	**0**	**0**	**0**	**0**	61	61	61	61	61	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
6b	construction of western culvert	0	0	0	0	0	0	0	0	0	0	121	121	121	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Noise Level at NSR (dB(A))	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	68	68	68	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
6c	construction of eastern culvert	0	0	0	0	0	0	0	0	0	0	0	0	0	109	0	0	0	0	0	0	0	0	0	0	0	0	0
	Noise Level at NSR (dB(A))	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	69	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
6d	construction of 90m box culvert	0	0	0	0	0	0	0	0	0	0	0	0	0	0	111	111	111	111	111	111	111	0	0	0	0	0	0
	Noise Level at NSR (dB(A))	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	71	71	71	71	71	71	71	**0**	**0**	**0**	**0**	**0**	**0**
7	*Sand Filling*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	117	117	117	117	0	0	0	0	0
	Total SWL	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*117*	*117*	*117*	*117*	*0*	*0*	*0*	*0*	*0*
	Noise Level at NSR (dB(A))	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	71	71	71	71	**0**	**0**	**0**	**0**	**0**
OVERALL NOISE LEVEL AT NSR (dB(A))		**0**	**0**	76	76	76	76	76	76	76	71	73	73	72	73	75	75	76	75	77	75	75	73	69	69	69	69	**0**

Appendix D4 - Construction Noise Assessment - Unmitigated Scenario

NSR: *N3, Village House - No.70 Lo Tsz Tin*

Distance from NSR to Notional Source Position			*Correction Factor*								
Distance from NSR to Work Site ID 1	122	m	Distance Attenuation =	-50	dB(A)	Facade =	3	dB(A)	Barrier Correction =	0	dB(A)
Distance from NSR to Work Site ID 2	85	m	Distance Attenuation =	-47	dB(A)	Facade =	3	dB(A)	Barrier Correction =	0	dB(A)
Distance from NSR to Work Site ID 3	70	m	Distance Attenuation =	-45	dB(A)	Facade =	3	dB(A)	Barrier Correction =	0	dB(A)
Distance from NSR to Work Site ID 4	167	m	Distance Attenuation =	-52	dB(A)	Facade =	3	dB(A)	Barrier Correction =	0	dB(A)
Distance from NSR to Work Site ID 5	172	m	Distance Attenuation =	-53	dB(A)	Facade =	3	dB(A)	Barrier Correction =	0	dB(A)
Distance from NSR to Work Site ID 6a & 6b	106	m	Distance Attenuation =	-49	dB(A)	Facade =	3	dB(A)	Barrier Correction =	0	dB(A)
Distance from NSR to Work Site ID 6c & 6d	212	m	Distance Attenuation =	-55	dB(A)	Facade =	3	dB(A)	Barrier Correction =	0	dB(A)
Distance from NSR to Work Site ID 7	167	m	Distance Attenuation =	-52	dB(A)	Facade =	3	dB(A)	Barrier Correction =	0	dB(A)

Construction Item		2008			2009												2010											
ID	Activity	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D
1	*Construction Works on Land*																											
1a	site Formation, construction of seawall	0	0	116	116	116	116	116	115.6	115.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1b	road widening at Ting Kok Road	0	0	115	115	115	115	115	115	115	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Total SWL	*0*	*0*	*118*	*118*	*118*	*118*	*118*	*118*	*118*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
	Noise Level at NSR (dB(A))	**0**	**0**	**72**	**72**	**72**	**72**	**72**	**72**	**72**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
2	*Car Park Paving*	0	0	0	0	0	0	0	0	0	116	116	116	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Total SWL	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*116*	*116*	*116*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
	Noise Level at NSR (dB(A))	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**72**	**72**	**72**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
3	*Building Works*																											
3a	piling works	0	0	0	0	0	0	0	0	0	112	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3b	foundation and tanking	0	0	0	0	0	0	0	0	0	0	113	113	113	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3c	superstructure	0	0	0	0	0	0	0	0	0	0	0	0	0	114	114	114	114	0	0	0	0	0	0	0	0	0	0
3d	building finishes & internal fitting-out	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	113	113	113	113	113	113	113	113	113	0
	Total SWL	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*112*	*113*	*113*	*113*	*114*	*114*	*114*	*114*	*113*	*113*	*113*	*113*	*113*	*113*	*113*	*113*	*113*	*0*
	Noise Level at NSR (dB(A))	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**70**	**71**	**71**	**71**	**72**	**72**	**72**	**72**	**71**	**71**	**71**	**71**	**71**	**71**	**71**	**71**	**71**	**0**
4	*Dredging of Groynes*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	116	116	0	0	0	0	0	0	0	0	0	0	0
	Total SWL	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*116*	*116*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
	Noise Level at NSR (dB(A))	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**67**	**67**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
5	*Rock filling of Groynes*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	116	116	116	0	0	0	0	0	0	0	0
	Total SWL	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*116*	*116*	*116*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
	Noise Level at NSR (dB(A))	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**66**	**66**	**66**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
6	*Box Culvert Construction*																											
6a	construction of gabion channel	0	0	0	0	0	115	115	115	115	115	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Noise Level at NSR (dB(A))	**0**	**0**	**0**	**0**	**0**	**69**	**69**	**69**	**69**	**69**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
6b	construction of western culvert	0	0	0	0	0	0	0	0	0	0	121	121	121	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Noise Level at NSR (dB(A))	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**76**	**76**	**76**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
6c	construction of eastern culvert	0	0	0	0	0	0	0	0	0	0	0	0	0	109	0	0	0	0	0	0	0	0	0	0	0	0	0
	Noise Level at NSR (dB(A))	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**57**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
6d	construction of 90m box culvert	0	0	0	0	0	0	0	0	0	0	0	0	0	0	111	111	111	111	111	111	111	0	0	0	0	0	0
	Noise Level at NSR (dB(A))	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**60**	**60**	**60**	**60**	**60**	**60**	**60**	**0**	**0**	**0**	**0**	**0**	**0**
7	*Sand Filling*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	117	117	117	117	0	0	0	0	0
	Total SWL	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*117*	*117*	*117*	*117*	*0*	*0*	*0*	*0*	*0*
	Noise Level at NSR (dB(A))	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**68**	**68**	**68**	**68**	**0**	**0**	**0**	**0**	**0**
OVERALL NOISE LEVEL AT NSR (dB(A))		**0**	**0**	**72**	**72**	**72**	**74**	**74**	**74**	**74**	**75**	**78**	**78**	**77**	**72**	**73**	**73**	**73**	**72**	**74**	**73**	**73**	**73**	**71**	**71**	**71**	**71**	**0**

Appendix D4 - Construction Noise Assessment - Unmitigated Scenario

NSR: *N4, Village House - No.79 Lo Tsz Tin*

Distance from NSR to Notional Source Position			*Correction Factor*							
Distance from NSR to Work Site ID 1	*135*	*m*	Distance Attenuation =	*-51*	*dB(A)*	Facade =	*3*	*dB(A)*	Barrier Correction =	*0*	*dB(A)*
Distance from NSR to Work Site ID 2	*135*	*m*	Distance Attenuation =	*-51*	*dB(A)*	Facade =	*3*	*dB(A)*	Barrier Correction =	*0*	*dB(A)*
Distance from NSR to Work Site ID 3	*106*	*m*	Distance Attenuation =	*-49*	*dB(A)*	Facade =	*3*	*dB(A)*	Barrier Correction =	*0*	*dB(A)*
Distance from NSR to Work Site ID 4	*225*	*m*	Distance Attenuation =	*-55*	*dB(A)*	Facade =	*3*	*dB(A)*	Barrier Correction =	*0*	*dB(A)*
Distance from NSR to Work Site ID 5	*180*	*m*	Distance Attenuation =	*-53*	*dB(A)*	Facade =	*3*	*dB(A)*	Barrier Correction =	*0*	*dB(A)*
Distance from NSR to Work Site ID 6a & 6b	*68*	*m*	Distance Attenuation =	*-45*	*dB(A)*	Facade =	*3*	*dB(A)*	Barrier Correction =	*0*	*dB(A)*
Distance from NSR to Work Site ID 6c & 6d	*322*	*m*	Distance Attenuation =	*-58*	*dB(A)*	Facade =	*3*	*dB(A)*	Barrier Correction =	*0*	*dB(A)*
Distance from NSR to Work Site ID 7	*225*	*m*	Distance Attenuation =	*-55*	*dB(A)*	Facade =	*3*	*dB(A)*	Barrier Correction =	*0*	*dB(A)*

Construction Item		2008			2009											2010											
ID	Activity	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D
1	*Construction Works on Land*																											
1a	site Formation, construction of seawall	0	0	116	116	116	116	116	115.6	115.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1b	road widening at Ting Kok Road	0	0	115	115	115	115	115	115	115	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Total SWL	*0*	*0*	*118*	*118*	*118*	*118*	*118*	*118*	*118*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
	Noise Level at NSR (dB(A))	**0**	**0**	**71**	**71**	**71**	**71**	**71**	**71**	**71**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
2	*Car Park Paving*	0	0	0	0	0	0	0	0	0	116	116	116	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Total SWL	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*116*	*116*	*116*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
	Noise Level at NSR (dB(A))	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	68	68	68	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
3	*Building Works*																											
3a	piling works	0	0	0	0	0	0	0	0	0	112	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3b	foundation and tanking	0	0	0	0	0	0	0	0	0	0	113	113	113	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3c	superstructure	0	0	0	0	0	0	0	0	0	0	0	0	0	114	114	114	114	0	0	0	0	0	0	0	0	0	0
3d	building finishes & internal fitting-out	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	113	113	113	113	113	113	113	113	113	0
	Total SWL	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*112*	*113*	*113*	*113*	*114*	*114*	*114*	*114*	*113*	*113*	*113*	*113*	*113*	*113*	*113*	*113*	*113*	*0*
	Noise Level at NSR (dB(A))	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	66	68	68	68	69	69	69	69	67	67	67	67	67	67	67	67	67	**0**
4	*Dredging of Groynes*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	116	116	0	0	0	0	0	0	0	0	0	0	0
	Total SWL	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*116*	*116*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
	Noise Level at NSR (dB(A))	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	64	64	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
5	*Rock filling of Groynes*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	116	116	116	0	0	0	0	0	0	0	0
	Total SWL	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*116*	*116*	*116*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
	Noise Level at NSR (dB(A))	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	66	66	66	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
6	*Box Culvert Construction*																											
6a	construction of gabion channel	0	0	0	0	0	115	115	115	115	115	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Noise Level at NSR (dB(A))	**0**	**0**	**0**	**0**	**0**	73	73	73	73	73	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
6b	construction of western culvert	0	0	0	0	0	0	0	0	0	0	121	121	121	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Noise Level at NSR (dB(A))	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	80	80	80	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
6c	construction of eastern culvert	0	0	0	0	0	0	0	0	0	0	0	0	0	109	0	0	0	0	0	0	0	0	0	0	0	0	0
	Noise Level at NSR (dB(A))	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	54	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
6d	construction of 90m box culvert	0	0	0	0	0	0	0	0	0	0	0	0	0	0	111	111	111	111	111	111	111	0	0	0	0	0	0
	Noise Level at NSR (dB(A))	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	56	56	56	56	56	56	56	**0**	**0**	**0**	**0**	**0**	**0**
7	*Sand Filling*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	117	117	117	117	0	0	0	0	0
	Total SWL	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*117*	*117*	*117*	*117*	*0*	*0*	*0*	*0*	*0*
	Noise Level at NSR (dB(A))	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	65	65	65	65	**0**	**0**	**0**	**0**	**0**
OVERALL NOISE LEVEL AT NSR (dB(A))		**0**	**0**	**71**	**71**	**71**	**75**	**75**	**75**	**75**	**75**	**80**	**80**	**80**	**69**	**70**	**70**	**70**	**70**	**71**	**70**	**70**	**69**	**67**	**67**	**67**	**67**	**0**

Appendix D5

Construction Noise Assessment (Mitigated Scenario)

Appendix D5 Construction Plant Inventory - Mitigated Scenario

ID	Activities	Plant	CNP/BS5228 ref.	No. of PME	% of operating time	SWL, dB(A)	Correction, dB(A) Operating time	Correction, dB(A) No. of Plant	Correction, dB(A) Barrier[3]	SWL, dB(A)
1	**Construction Works on Land**									
1a	*site Formation, construction of seawall, ramp, staircase, retaining walls, sump tanks for grey water system and superstructure foundation*									
	- construction of seawall & retaining wall	Mobile crane	--[2]	1	80	107	-1	0	-5	101
		Excavator	BS TC3-97	1	80	105	-1	0	-5	99
		Lorry, 5.5ton<gross vehicle weight<38ton	--[1]	3	80	105	-1	5	0	109
									Sub-Total SWL	*110*
	- backfilling	Lorry, 5.5ton<gross vehicle weight<38ton	--[1]	3	80	105	-1	5	0	109
		Excavator	BS TC3-97	2	80	105	-1	3	-5	102
		Roller, vibratory	CNP 186	1	50	108	-3	0	0	105
									Sub-Total SWL	*111*
	- construction of ramp, staircase, sump tanks for grey water system and superstructure foundation	Timber sawing machine	CNP 201	2	50	108	-3	3	-5	103
		Bar bender and cutter (electric)	CNP 021	3	50	90	-3	5	0	92
		Electrical drill	CNP 065	5	50	98	-3	7	0	102
		Diesel generator	CNP 102	1	100	100	0	0	0	100
		Water pumps (electric)	CNP 281	2	100	88	0	3	0	91
		Vibratory Poker (electric)	--[1]	3	80	102	-1	5	0	106
		Concrete lorry mixers	BS TC6-23	1	80	100	-1	0	-5	94
									Sub-Total SWL	*109*
									MAXIMUM SWL FOR WORK ID 1a =	*111*
1b	*road widening at Ting Kok Road*									
	- breaking existing road surface	Excavator	BS TC3-97	2	100	105	0	3	-5	103
									Sub-Total SWL	*103*
	- drainage channel construction	Silent Piler	--[3]	1	80	100	-1	0	0	99
		Excavator	BS TC3-97	1	80	105	-1	0	-5	99
		Mobile crane	--[2]	1	80	107	-1	0	-5	101
									Sub-Total SWL	*105*
	- manhole construction	Electrical drill	CNP 065	2	50	98	-3	3	0	98
		Diesel generator	CNP 102	2	100	100	0	3	0	103
		Timber sawing machine	CNP 201	1	50	108	-3	0	-5	100
		Bar bender and cutter (electric)	CNP 021	1	50	90	-3	0	0	87
									Sub-Total SWL	*106*
	- concreting work	Concrete lorry mixers	BS TC6-23	1	80	100	-1	0	0	99
		Vibratory Poker (electric)	--[1]	2	80	102	-1	3	0	104
									Sub-Total SWL	*105*
	- backfilling and road formation	Compactor, vibratory	CNP 050	1	50	105	-3	0	0	102
		Road roller	CNP 185	1	50	108	-3	0	0	105
		Excavator	BS TC3-97	1	80	105	-1	0	-5	99
									Sub-Total SWL	*107*
									MAXIMUM SWL FOR WORK ID 1b =	*107*
2	**Car Park Paving**									
	- backfilling	Lorry, 5.5ton<gross vehicle weight<38ton	--[1]	3	80	105	-1	5	0	109
		Excavator	BS TC3-97	2	80	105	-1	3	-5	102
		Roller, vibratory	CNP 186	1	50	108	-3	0	0	105
									Sub-Total SWL	*111*
	- concreting work	Concrete lorry mixers	BS TC6-23	1	80	100	-1	0	0	99
		Vibratory Poker (electric)	--[1]	2	80	102	-1	3	0	104
									Sub-Total SWL	*105*
									MAXIMUM SWL FOR WORK ID 2 =	*111*
3	**Building Works**									
3a	*piling works*	Silent piler	--[3]	2	80	100	-1	3	0	102
		Excavator	BS TC3-97	1	80	105	-1	0	0	104
									MAXIMUM SWL FOR WORK ID 3a =	*106*
3b	*foundation and tanking*									
		Mobile crane	--[2]	1	80	107	-1	0	-5	101
		Excavator	BS TC3-97	1	80	105	-1	0	-5	99
		Timber sawing machine	CNP 201	2	50	108	-3	3	-5	103
		Bar bender and cutter (electric)	CNP 021	3	50	90	-3	5	0	92
		Electrical drill	CNP 065	5	50	98	-3	7	0	102
		Diesel generator	CNP 102	1	100	100	0	0	0	100
		Water pumps (electric)	CNP 281	2	100	88	0	3	0	91
									Sub-Total SWL	*108*
									MAXIMUM SWL FOR WORK ID 3b =	*108*

Appendix D5 Construction Plant Inventory - Mitigated Scenario

ID	Activities	Plant	CNP/BS5228 ref.	No. of PME	% of operating time	SWL, dB(A)	Correction, dB(A) Operating time	No. of Plant	Barrier[3]	SWL, dB(A)
3c	*superstructure*									
	- superstructure work	Mobile crane	--[2]	1	80	107	-1	0	-5	101
		Timber sawing machine	CNP 201	3	50	108	-3	5	-5	105
		Bar bender and cutter (electric)	CNP 021	3	50	90	-3	5	0	92
		Electrical drill	CNP 065	6	50	98	-3	8	0	103
		Diesel generator	CNP 102	1	100	100	0	0	0	100
									Sub-Total SWL	*109*
	- concreting work	Concrete lorry mixers	BS TC6-23	1	80	100	-1	0	0	99
		Vibratory Poker (electric)	--[1]	5	80	102	-1	7	0	108
									Sub-Total SWL	*109*
									MAXIMUM SWL FOR WORK ID 3c =	*109*
3d	*building finishes & internal fitting-out*	Mobile crane	--[2]	1	80	107	-1	0	-5	101
		Timber sawing machine	CNP 201	1	50	108	-3	0	0	105
		Electrical drill	CNP 065	6	50	98	-3	8	0	103
		Diesel generator	CNP 102	1	100	100	0	0	0	100
									TOTAL SWL FOR WORK ID 3d =	*109*
4	**Dredging of Groynes**	Excavator	BS TC3-97	2	80	105	-1	3	0	107
		Grab Dredger	CNP 063	1	100	112	0	0	0	112
		Derrick lighter	CNP 061	1	100	104	0	0	0	104
									TOTAL SWL FOR WORK ID 4 =	*114*
5	**Rock filling of Groynes**	Lorry, 5.5ton<gross vehicle weight<38ton	--[1]	3	80	105	-1	5	0	109
		Excavator	BS TC3-97	2	80	105	-1	3	-5	102
		Derrick lighter	CNP 061	2	80	104	-1	3	-5	101
									TOTAL SWL FOR WORK ID 5 =	*110*
6	**Box Culvert Construction**									
6a	*construction of gabion channel*									
	- excavation & leveling work	Silent piler	--[3]	1	80	100	-1	0	0	99
		Excavator	BS TC3-97	2	80	105	-1	3	0	107
		Vibration compactor	CNP 186	1	50	108	-3	0	0	105
									Sub-Total SWL	*110*
	- placing of gabion blocks	Lorry, 5.5ton<gross vehicle weight<38ton	--[1]	1	80	105	-1	0	0	104
		Mobile crane	--[2]	1	80	107	-1	0	0	106
									Sub-Total SWL	*108*
	- backfilling work	Vibratory compactor	CNP 050	1	50	105	-3	0	0	102
		Lorry, 5.5ton<gross vehicle weight<38ton	--[1]	1	80	105	-1	0	0	104
		Excavator	BS TC3-97	2	80	105	-1	3	-5	102
									Sub-Total SWL	*108*
									MAXIMUM SWL FOR WORK ID 6a =	*110*
6b	*construction of western culvert*									
	- excavation work	Silent piler	--[3]	1	80	100	-1	0	0	99
		Excavator	BS TC3-97	1	80	105	-1	0	0	104
									Sub-Total SWL	*105*
	- construction of culvert	Timber sawing machine	CNP 201	1	50	108	-3	0	0	105
		Electrical drill	CNP 065	2	50	98	-3	3	0	98
		Diesel generator	CNP 102	2	100	100	0	3	0	103
		Water pumps (electric)	CNP 281	1	100	88	0	0	0	88
		Mobile crane	CNP 048	1	80	107	-1	0	-5	101
									Sub-Total SWL	*109*
	- demolition of existing culvert	Pneumatic Breaker	BS TC2-10	1	80	110	-1	0	0	109
		Excavator	BS TC3-97	1	80	105	-1	0	-5	99
									Sub-Total SWL	*109*

Appendix D5 Construction Plant Inventory - Mitigated Scenario

ID	Activities	Plant	CNP/BS5228 ref.	No. of PME	% of operating time	SWL, dB(A)	Correction, dB(A) Operating time	No. of Plant	Barrier[3]	SWL, dB(A)
	- construction of culvert top slab	Lorry, 5.5ton<gross vehicle weight<38ton	--[1]	3	80	105	-1	5	0	109
		Concrete lorry mixers	BS TC6-23	1	80	100	-1	0	-5	94
		Timber sawing machine	CNP 201	2	50	108	-3	3	0	108
		Bar bender and cutter (electric)	CNP 021	2	50	90	-3	3	0	90
		Vibratory Poker (electric)	--[1]	2	80	102	-1	3	0	104
									Sub-Total SWL	*112*
	- slope reinstatement	Excavator	BS TC3-97	1	80	105	-1	0	0	104
									Sub-Total SWL	*104*
									MAXIMUM SWL FOR WORK ID 6b =	*112*
6c	*construction of eastern culvert*									
	-preparation of concrete slab surface	Electrical drill	CNP 065	2	50	98	-3	3	0	98
		Diesel generator	CNP 102	2	100	100	0	3	0	103
		Water pumps (electric)	CNP 281	2	100	88	0	3	0	91
									Sub-Total SWL	*104*
	- concreting work	Concrete lorry mixers	BS TC6-23	1	80	100	-1	0	-5	94
		Vibratory Poker (electric)	--[1]	1	80	102	-1	0	0	101
									Sub-Total SWL	*102*
									MAXIMUM SWL FOR WORK ID 6c =	*104*
6d	*construction of 90m box culvert*									
	- excavation work	Excavator	BS TC3-97	1	80	105	-1	0	-5	99
									Sub-Total SWL	*99*
	- erection of precast panel segment	Mobile crane	--[2]	1	80	107	-1	0	-5	101
									Sub-Total SWL	*101*
	- construction of top and bottom slab	Timber sawing machine	CNP 201	1	50	108	-3	0	-5	100
		Bar bender and cutter (electric)	CNP 021	1	50	90	-3	0	-5	82
		Electrical drill	CNP 065	2	50	98	-3	3	-5	93
		Diesel generator	CNP 102	2	100	100	0	3	-5	98
									Sub-Total SWL	*103*
	- concreting work	Vibratory Poker (electric)	--[1]	2	80	102	-1	3	-5	99
		Concrete lorry mixers	CNP 044	1	80	100	-1	0	-5	94
									Sub-Total SWL	*100*
	-screeding work	Concrete mixer	CNP 045	1	80	96	-1	0	-5	90
		Diesel generator	CNP 102	2	100	100	0	3	-5	98
									Sub-Total SWL	*99*
	- backfilling	Lorry, 5.5ton<gross vehicle weight<38ton	--[1]	1	80	105	-1	0	-5	99
		Vibratory compactor	CNP 050	1	50	105	-3	0	-5	97
									Sub-Total SWL	*101*
									MAXIMUM SWL FOR WORK ID 6d =	*103*
7	**Sand Filling**	Pelican barge	CNP 061	1	100	104	0	0	0	104
		Excavator	BS TC3-97	2	80	105	-1	3	-5	102
		Tracked Loader	BS TC3-16	2	80	104	-1	3	0	106
									MAXIMUM SWL FOR WORK ID 7 =	*109*

Remarks

(1) SWL refer to the document prepared by the Noise Control Authority (http://www.epd.gov.hk/epd/english/application_for_licences/guidance/files/OtherSWLe.pdf)

(2) SWL refer to data base of quality powered mechanical equipment prepared by the Noise Control Authority (http://www.epd.gov.hk/cgi-bin/npg/qpme/search_gen.pl?lang=eng&st=sim&smtype=0)

(3) Reference was made to MTRC Contract C4420 Tsim Sha Tsui Station Modification, Variation of Enviromental Permit, Noise assessment of GIKEN silent piler system.

(4) Barrier attenuation is obtained from site hoarding or movable noise barrier.

Appendix D5 - Construction Noise Assessment - Mitigated Scenario

NSR: *N1, Village House - No.165A Lung Mei*

Distance from NSR to Notional Source Position			*Correction Factor*							
Distance from NSR to Work Site ID 1	106	m	Distance Attenuation =	-49	dB(A)	Facade =	3	dB(A)	Barrier Correction =	0	dB(A)
Distance from NSR to Work Site ID 2	176	m	Distance Attenuation =	-53	dB(A)	Facade =	3	dB(A)	Barrier Correction =	0	dB(A)
Distance from NSR to Work Site ID 3	118	m	Distance Attenuation =	-49	dB(A)	Facade =	3	dB(A)	Barrier Correction =	0	dB(A)
Distance from NSR to Work Site ID 4	124	m	Distance Attenuation =	-50	dB(A)	Facade =	3	dB(A)	Barrier Correction =	0	dB(A)
Distance from NSR to Work Site ID 5	68	m	Distance Attenuation =	-45	dB(A)	Facade =	3	dB(A)	Barrier Correction =	0	dB(A)
Distance from NSR to Work Site ID 6a & 6b	290	m	Distance Attenuation =	-57	dB(A)	Facade =	3	dB(A)	Barrier Correction =	0	dB(A)
Distance from NSR to Work Site ID 6c & 6d	29	m	Distance Attenuation =	-37	dB(A)	Facade =	3	dB(A)	Barrier Correction =	0	dB(A)
Distance from NSR to Work Site ID 7	124	m	Distance Attenuation =	-50	dB(A)	Facade =	3	dB(A)	Barrier Correction =	0	dB(A)

Construction Item		2008			2009											2010											
ID	Activity	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D
1	*Construction Works on Land*																											
1a	site Formation, construction of seawall	0	0	111	111	111	111	111	110.9	110.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1b	road widening at Ting Kok Road	0	0	107	107	107	107	107	107	107	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Total SWL	*0*	*0*	*113*	*113*	*113*	*113*	*113*	*113*	*113*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
	Noise Level at NSR (dB(A))	**0**	**0**	**67**	**67**	**67**	**67**	**67**	**67**	**67**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
2	*Car Park Paving*	0	0	0	0	0	0	0	0	0	111	111	111	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Total SWL	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*111*	*111*	*111*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
	Noise Level at NSR (dB(A))	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**61**	**61**	**61**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
3	*Building Works*																											
3a	piling works	0	0	0	0	0	0	0	0	0	106	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3b	foundation and tanking	0	0	0	0	0	0	0	0	0	0	108	108	108	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3c	superstructure	0	0	0	0	0	0	0	0	0	0	0	0	0	109	109	109	109	0	0	0	0	0	0	0	0	0	0
3d	building finishes & internal fitting-out	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	109	109	109	109	109	109	109	109	109	0
	Total SWL	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*106*	*108*	*108*	*108*	*109*	*109*	*109*	*109*	*109*	*109*	*109*	*109*	*109*	*109*	*109*	*109*	*109*	*0*
	Noise Level at NSR (dB(A))	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**60**	**61**	**61**	**61**	**62**	**62**	**62**	**62**	**62**	**62**	**62**	**62**	**62**	**62**	**62**	**62**	**62**	**0**
4	*Dredging of Groynes*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	114	114	0	0	0	0	0	0	0	0	0	0	0
	Total SWL	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*114*	*114*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
	Noise Level at NSR (dB(A))	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**67**	**67**	**67**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
5	*Rock filling of Groynes*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	110	110	110	0	0	0	0	0	0	0	0
	Total SWL	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*110*	*110*	*110*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
	Noise Level at NSR (dB(A))	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**69**	**69**	**69**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
6	*Box Culvert Construction*																											
6a	construction of gabion channel	0	0	0	0	0	110	110	110	110	110	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Noise Level at NSR (dB(A))	**0**	**0**	**0**	**0**	**0**	**55**	**55**	**55**	**55**	**55**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
6b	construction of western culvert	0	0	0	0	0	0	0	0	0	0	112	112	112	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Noise Level at NSR (dB(A))	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**58**	**58**	**58**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
6c	construction of eastern culvert	0	0	0	0	0	0	0	0	0	0	0	0	0	104	0	0	0	0	0	0	0	0	0	0	0	0	0
	Noise Level at NSR (dB(A))	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**70**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
6d	construction of 90m box culvert	0	0	0	0	0	0	0	0	0	0	0	0	0	0	103	103	103	103	103	103	103	0	0	0	0	0	0
	Noise Level at NSR (dB(A))	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**68**	**68**	**68**	**68**	**68**	**68**	**68**	**0**	**0**	**0**	**0**	**0**	**0**
7	*Sand Filling*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	109	109	109	109	0	0	0	0	0
	Total SWL	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*109*	*109*	*109*	*109*	*0*	*0*	*0*	*0*	*0*
	Noise Level at NSR (dB(A))	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**62**	**62**	**62**	**62**	**0**	**0**	**0**	**0**	**0**
OVERALL NOISE LEVEL AT NSR (dB(A))		**0**	**0**	**67**	**67**	**67**	**67**	**67**	**67**	**67**	**64**	**65**	**65**	**63**	**71**	**71**	**71**	**72**	**72**	**72**	**70**	**70**	**65**	**62**	**62**	**62**	**62**	**0**

Appendix D5 - Construction Noise Assessment - Mitigated Scenario

NSR: *N2, Village House - No.103 Lung Mei*

Distance from NSR to Notional Source Position			*Correction Factor*								
Distance from NSR to Work Site ID 1	80	m	Distance Attenuation =	-46	dB(A)	Facade =	3	dB(A)	Barrier Correction =	0	dB(A)
Distance from NSR to Work Site ID 2	128	m	Distance Attenuation =	-50	dB(A)	Facade =	3	dB(A)	Barrier Correction =	0	dB(A)
Distance from NSR to Work Site ID 3	94	m	Distance Attenuation =	-47	dB(A)	Facade =	3	dB(A)	Barrier Correction =	0	dB(A)
Distance from NSR to Work Site ID 4	135	m	Distance Attenuation =	-51	dB(A)	Facade =	3	dB(A)	Barrier Correction =	0	dB(A)
Distance from NSR to Work Site ID 5	90	m	Distance Attenuation =	-47	dB(A)	Facade =	3	dB(A)	Barrier Correction =	0	dB(A)
Distance from NSR to Work Site ID 6a & 6b	246	m	Distance Attenuation =	-56	dB(A)	Facade =	3	dB(A)	Barrier Correction =	0	dB(A)
Distance from NSR to Work Site ID 6c & 6d	70	m	Distance Attenuation =	-45	dB(A)	Facade =	3	dB(A)	Barrier Correction =	0	dB(A)
Distance from NSR to Work Site ID 7	135	m	Distance Attenuation =	-51	dB(A)	Facade =	3	dB(A)	Barrier Correction =	0	dB(A)

Construction Item		2008			2009											2010											
ID	Activity	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D
1	*Construction Works on Land*																											
1a	site Formation, construction of seawall	0	0	111	111	111	111	111	110.9	110.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1b	road widening at Ting Kok Road	0	0	107	107	107	107	107	107	107	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Total SWL	*0*	*0*	*113*	*113*	*113*	*113*	*113*	*113*	*113*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
	Noise Level at NSR (dB(A))	**0**	**0**	**69**	**69**	**69**	**69**	**69**	**69**	**69**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
2	*Car Park Paving*	0	0	0	0	0	0	0	0	0	111	111	111	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Total SWL	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*111*	*111*	*111*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
	Noise Level at NSR (dB(A))	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**64**	**64**	**64**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
3	*Building Works*																											
3a	piling works	0	0	0	0	0	0	0	0	0	106	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3b	foundation and tanking	0	0	0	0	0	0	0	0	0	0	108	108	108	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3c	superstructure	0	0	0	0	0	0	0	0	0	0	0	0	0	109	109	109	109	0	0	0	0	0	0	0	0	0	0
3d	building finishes & internal fitting-out	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	109	109	109	109	109	109	109	109	109	0
	Total SWL	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*106*	*108*	*108*	*108*	*109*	*109*	*109*	*109*	*109*	*109*	*109*	*109*	*109*	*109*	*109*	*109*	*109*	*0*
	Noise Level at NSR (dB(A))	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**62**	**63**	**63**	**63**	**64**	**64**	**64**	**64**	**64**	**64**	**64**	**64**	**64**	**64**	**64**	**64**	**64**	**0**
4	*Dredging of Groynes*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	114	114	0	0	0	0	0	0	0	0	0	0	0
	Total SWL	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*114*	*114*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
	Noise Level at NSR (dB(A))	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**66**	**66**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
5	*Rock filling of Groynes*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	110	110	110	0	0	0	0	0	0	0	0
	Total SWL	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*110*	*110*	*110*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
	Noise Level at NSR (dB(A))	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**66**	**66**	**66**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
6	*Box Culvert Construction*																											
6a	construction of gabion channel	0	0	0	0	0	110	110	110	110	110	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Noise Level at NSR (dB(A))	**0**	**0**	**0**	**0**	**0**	**57**	**57**	**57**	**57**	**57**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
6b	construction of western culvert	0	0	0	0	0	0	0	0	0	0	112	112	112	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Noise Level at NSR (dB(A))	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**59**	**59**	**59**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
6c	construction of eastern culvert	0	0	0	0	0	0	0	0	0	0	0	0	0	104	0	0	0	0	0	0	0	0	0	0	0	0	0
	Noise Level at NSR (dB(A))	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**63**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
6d	construction of 90m box culvert	0	0	0	0	0	0	0	0	0	0	0	0	0	0	103	103	103	103	103	103	103	0	0	0	0	0	0
	Noise Level at NSR (dB(A))	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**61**	**61**	**61**	**61**	**61**	**61**	**61**	**0**	**0**	**0**	**0**	**0**	**0**
7	*Sand Filling*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	109	109	109	109	0	0	0	0	0
	Total SWL	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*109*	*109*	*109*	*109*	*0*	*0*	*0*	*0*	*0*
	Noise Level at NSR (dB(A))	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**61**	**61**	**61**	**61**	**0**	**0**	**0**	**0**	**0**
OVERALL NOISE LEVEL AT NSR (dB(A))		**0**	**0**	**69**	**69**	**69**	**70**	**70**	**70**	**70**	**66**	**67**	**67**	**65**	**66**	**69**	**69**	**69**	**69**	**70**	**67**	**67**	**66**	**64**	**64**	**64**	**64**	**0**

Appendix D5 - Construction Noise Assessment - Mitigated Scenario

NSR: *N2a, House - No.101 Lung Mei*

Distance from NSR to Notional Source Position			*Correction Factor*							
Distance from NSR to Work Site ID 1	*77*	*m*	Distance Attenuation =	*-46*	*dB(A)*	Facade =	*3*	*dB(A)*	Barrier Correction =	*0*	*dB(A)*
Distance from NSR to Work Site ID 2	*140*	*m*	Distance Attenuation =	*-51*	*dB(A)*	Facade =	*3*	*dB(A)*	Barrier Correction =	*0*	*dB(A)*
Distance from NSR to Work Site ID 3	*89*	*m*	Distance Attenuation =	*-47*	*dB(A)*	Facade =	*3*	*dB(A)*	Barrier Correction =	*0*	*dB(A)*
Distance from NSR to Work Site ID 4	*122*	*m*	Distance Attenuation =	*-50*	*dB(A)*	Facade =	*3*	*dB(A)*	Barrier Correction =	*0*	*dB(A)*
Distance from NSR to Work Site ID 5	*90*	*m*	Distance Attenuation =	*-47*	*dB(A)*	Facade =	*3*	*dB(A)*	Barrier Correction =	*0*	*dB(A)*
Distance from NSR to Work Site ID 6a & 6b	*261*	*m*	Distance Attenuation =	*-56*	*dB(A)*	Facade =	*3*	*dB(A)*	Barrier Correction =	*0*	*dB(A)*
Distance from NSR to Work Site ID 6c & 6d	*55*	*m*	Distance Attenuation =	*-43*	*dB(A)*	Facade =	*3*	*dB(A)*	Barrier Correction =	*0*	*dB(A)*
Distance from NSR to Work Site ID 7	*122*	*m*	Distance Attenuation =	*-50*	*dB(A)*	Facade =	*3*	*dB(A)*	Barrier Correction =	*0*	*dB(A)*

Construction Item		2008			2009											2010											
ID	Activity	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D
1	*Construction Works on Land*																											
1a	site Formation, construction of seawall	0	0	111	111	111	111	111	110.9	110.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1b	road widening at Ting Kok Road	0	0	107	107	107	107	107	107	107	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Total SWL	*0*	*0*	*113*	*113*	*113*	*113*	*113*	*113*	*113*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
	Noise Level at NSR (dB(A))	**0**	**0**	**70**	**70**	**70**	**70**	**70**	**70**	**70**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
2	*Car Park Paving*	0	0	0	0	0	0	0	0	0	111	111	111	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Total SWL	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*111*	*111*	*111*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
	Noise Level at NSR (dB(A))	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**63**	**63**	**63**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
3	*Building Works*																											
3a	piling works	0	0	0	0	0	0	0	0	0	106	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3b	foundation and tanking	0	0	0	0	0	0	0	0	0	0	108	108	108	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3c	superstructure	0	0	0	0	0	0	0	0	0	0	0	0	0	109	109	109	109	0	0	0	0	0	0	0	0	0	0
3d	building finishes & internal fitting-out	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	109	109	109	109	109	109	109	109	109	0
	Total SWL	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*106*	*108*	*108*	*108*	*109*	*109*	*109*	*109*	*109*	*109*	*109*	*109*	*109*	*109*	*109*	*109*	*109*	*0*
	Noise Level at NSR (dB(A))	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**62**	**64**	**64**	**64**	**65**	**65**	**65**	**65**	**65**	**65**	**65**	**65**	**65**	**65**	**65**	**65**	**65**	**0**
4	*Dredging of Groynes*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	114	114	0	0	0	0	0	0	0	0	0	0
	Total SWL	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*114*	*114*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
	Noise Level at NSR (dB(A))	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**67**	**67**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
5	*Rock filling of Groynes*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	110	110	110	0	0	0	0	0	0	0	0
	Total SWL	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*110*	*110*	*110*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
	Noise Level at NSR (dB(A))	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**66**	**66**	**66**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
6	*Box Culvert Construction*																											
6a	construction of gabion channel	0	0	0	0	0	110	110	110	110	110	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Noise Level at NSR (dB(A))	**0**	**0**	**0**	**0**	**0**	**56**	**56**	**56**	**56**	**56**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
6b	construction of western culvert	0	0	0	0	0	0	0	0	0	0	112	112	112	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Noise Level at NSR (dB(A))	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**59**	**59**	**59**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
6c	construction of eastern culvert	0	0	0	0	0	0	0	0	0	0	0	0	0	104	0	0	0	0	0	0	0	0	0	0	0	0	0
	Noise Level at NSR (dB(A))	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**65**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
6d	construction of 90m box culvert	0	0	0	0	0	0	0	0	0	0	0	0	0	0	103	103	103	103	103	103	103	0	0	0	0	0	0
	Noise Level at NSR (dB(A))	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**63**	**63**	**63**	**63**	**63**	**63**	**63**	**0**	**0**	**0**	**0**	**0**	**0**
7	*Sand Filling*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	109	109	109	109	0	0	0	0	0
	Total SWL	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*109*	*109*	*109*	*109*	*0*	*0*	*0*	*0*	*0*
	Noise Level at NSR (dB(A))	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**62**	**62**	**62**	**62**	**0**	**0**	**0**	**0**	**0**
OVERALL NOISE LEVEL AT NSR (dB(A))		**0**	**0**	**70**	**70**	**70**	**70**	**70**	**70**	**70**	**66**	**67**	**67**	**65**	**68**	**70**	**70**	**70**	**70**	**70**	**68**	**68**	**67**	**65**	**65**	**65**	**65**	**0**

Appendix D5 - Construction Noise Assessment - Mitigated Scenario

NSR: *N3, Village House - No.70 Lo Tsz Tin*

Distance from NSR to Notional Source Position			*Correction Factor*								
Distance from NSR to Work Site ID 1	122	m	Distance Attenuation =	-50	dB(A)	Facade =	3	dB(A)	Barrier Correction =	0	dB(A)
Distance from NSR to Work Site ID 2	85	m	Distance Attenuation =	-47	dB(A)	Facade =	3	dB(A)	Barrier Correction =	0	dB(A)
Distance from NSR to Work Site ID 3	70	m	Distance Attenuation =	-45	dB(A)	Facade =	3	dB(A)	Barrier Correction =	0	dB(A)
Distance from NSR to Work Site ID 4	167	m	Distance Attenuation =	-52	dB(A)	Facade =	3	dB(A)	Barrier Correction =	0	dB(A)
Distance from NSR to Work Site ID 5	172	m	Distance Attenuation =	-53	dB(A)	Facade =	3	dB(A)	Barrier Correction =	0	dB(A)
Distance from NSR to Work Site ID 6a & 6b	106	m	Distance Attenuation =	-49	dB(A)	Facade =	3	dB(A)	Barrier Correction =	0	dB(A)
Distance from NSR to Work Site ID 6c & 6d	212	m	Distance Attenuation =	-55	dB(A)	Facade =	3	dB(A)	Barrier Correction =	0	dB(A)
Distance from NSR to Work Site ID 7	167	m	Distance Attenuation =	-52	dB(A)	Facade =	3	dB(A)	Barrier Correction =	0	dB(A)

Construction Item		2008			2009											2010											
ID	Activity	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D
1	*Construction Works on Land*																											
1a	site Formation, construction of seawall	0	0	111	111	111	111	111	110.9	110.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1b	road widening at Ting Kok Road	0	0	107	107	107	107	107	107	107	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Total SWL	0	0	113	113	113	113	113	113	113	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Noise Level at NSR (dB(A))	0	0	66	66	66	66	66	66	66	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	*Car Park Paving*	0	0	0	0	0	0	0	0	0	111	111	111	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Total SWL	0	0	0	0	0	0	0	0	0	111	111	111	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Noise Level at NSR (dB(A))	0	0	0	0	0	0	0	0	0	67	67	67	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	*Building Works*																											
3a	piling works	0	0	0	0	0	0	0	0	0	106	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3b	foundation and tanking	0	0	0	0	0	0	0	0	0	0	108	108	108	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3c	superstructure	0	0	0	0	0	0	0	0	0	0	0	0	0	109	109	109	109	0	0	0	0	0	0	0	0	0	0
3d	building finishes & internal fitting-out	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	109	109	109	109	109	109	109	109	109	0
	Total SWL	0	0	0	0	0	0	0	0	0	106	108	108	108	109	109	109	109	109	109	109	109	109	109	109	109	109	0
	Noise Level at NSR (dB(A))	0	0	0	0	0	0	0	0	0	64	66	66	66	67	67	67	67	67	67	67	67	67	67	67	67	67	0
4	*Dredging of Groynes*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	114	114	0	0	0	0	0	0	0	0	0	0	0
	Total SWL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	114	114	0	0	0	0	0	0	0	0	0	0	0
	Noise Level at NSR (dB(A))	0	0	0	0	0	0	0	0	0	0	0	0	0	0	64	64	0	0	0	0	0	0	0	0	0	0	0
5	*Rock filling of Groynes*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	110	110	110	0	0	0	0	0	0	0	0
	Total SWL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	110	110	110	0	0	0	0	0	0	0	0
	Noise Level at NSR (dB(A))	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	60	60	60	0	0	0	0	0	0	0	0
6	*Box Culvert Construction*																											
6a	construction of gabion channel	0	0	0	0	0	110	110	110	110	110	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Noise Level at NSR (dB(A))	0	0	0	0	0	64	64	64	64	64	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6b	construction of western culvert	0	0	0	0	0	0	0	0	0	0	112	112	112	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Noise Level at NSR (dB(A))	0	0	0	0	0	0	0	0	0	0	67	67	67	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6c	construction of eastern culvert	0	0	0	0	0	0	0	0	0	0	0	0	0	104	0	0	0	0	0	0	0	0	0	0	0	0	0
	Noise Level at NSR (dB(A))	0	0	0	0	0	0	0	0	0	0	0	0	0	53	0	0	0	0	0	0	0	0	0	0	0	0	0
6d	construction of 90m box culvert	0	0	0	0	0	0	0	0	0	0	0	0	0	0	103	103	103	103	103	103	103	0	0	0	0	0	0
	Noise Level at NSR (dB(A))	0	0	0	0	0	0	0	0	0	0	0	0	0	0	51	51	51	51	51	51	51	0	0	0	0	0	0
7	*Sand Filling*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	109	109	109	109	0	0	0	0	0
	Total SWL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	109	109	109	109	0	0	0	0	0
	Noise Level at NSR (dB(A))	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	60	60	60	60	0	0	0	0	0
	OVERALL NOISE LEVEL AT NSR (dB(A))	0	0	66	66	66	68	68	68	68	70	71	71	69	67	69	69	68	68	68	68	68	68	67	67	67	67	0

Appendix D5 - Construction Noise Assessment - Mitigated Scenario

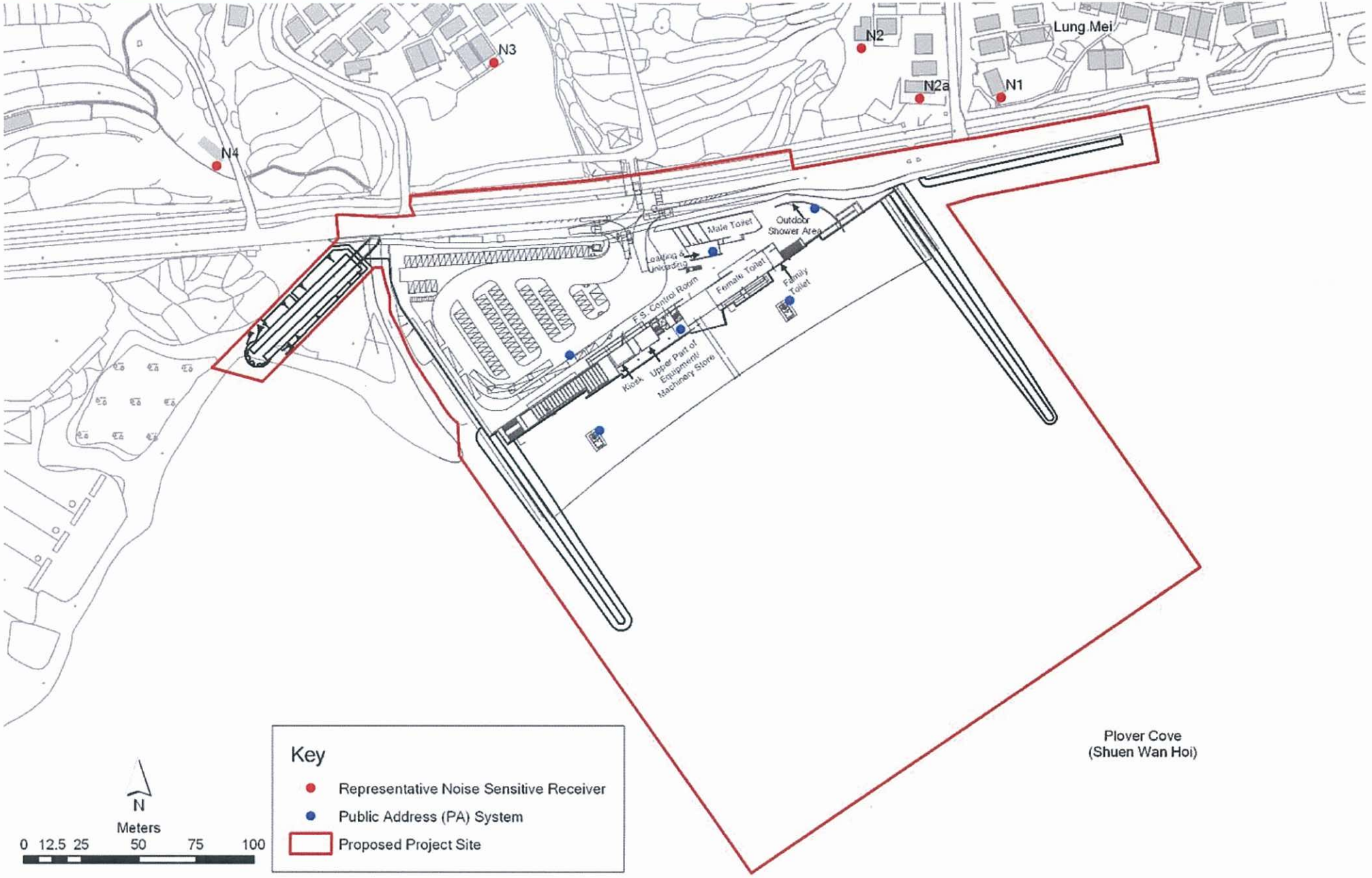
NSR: *N4, Village House - No.79 Lo Tsz Tin*

Distance from NSR to Notional Source Position			*Correction Factor*								
Distance from NSR to Work Site ID 1	135	m	Distance Attenuation =	-51	dB(A)	Facade =	3	dB(A)	Barrier Correction =	0	dB(A)
Distance from NSR to Work Site ID 2	135	m	Distance Attenuation =	-51	dB(A)	Facade =	3	dB(A)	Barrier Correction =	0	dB(A)
Distance from NSR to Work Site ID 3	106	m	Distance Attenuation =	-49	dB(A)	Facade =	3	dB(A)	Barrier Correction =	0	dB(A)
Distance from NSR to Work Site ID 4	225	m	Distance Attenuation =	-55	dB(A)	Facade =	3	dB(A)	Barrier Correction =	0	dB(A)
Distance from NSR to Work Site ID 5	180	m	Distance Attenuation =	-53	dB(A)	Facade =	3	dB(A)	Barrier Correction =	0	dB(A)
Distance from NSR to Work Site ID 6a & 6b	68	m	Distance Attenuation =	-45	dB(A)	Facade =	3	dB(A)	Barrier Correction =	0	dB(A)
Distance from NSR to Work Site ID 6c & 6d	322	m	Distance Attenuation =	-58	dB(A)	Facade =	3	dB(A)	Barrier Correction =	0	dB(A)
Distance from NSR to Work Site ID 7	225	m	Distance Attenuation =	-55	dB(A)	Facade =	3	dB(A)	Barrier Correction =	0	dB(A)

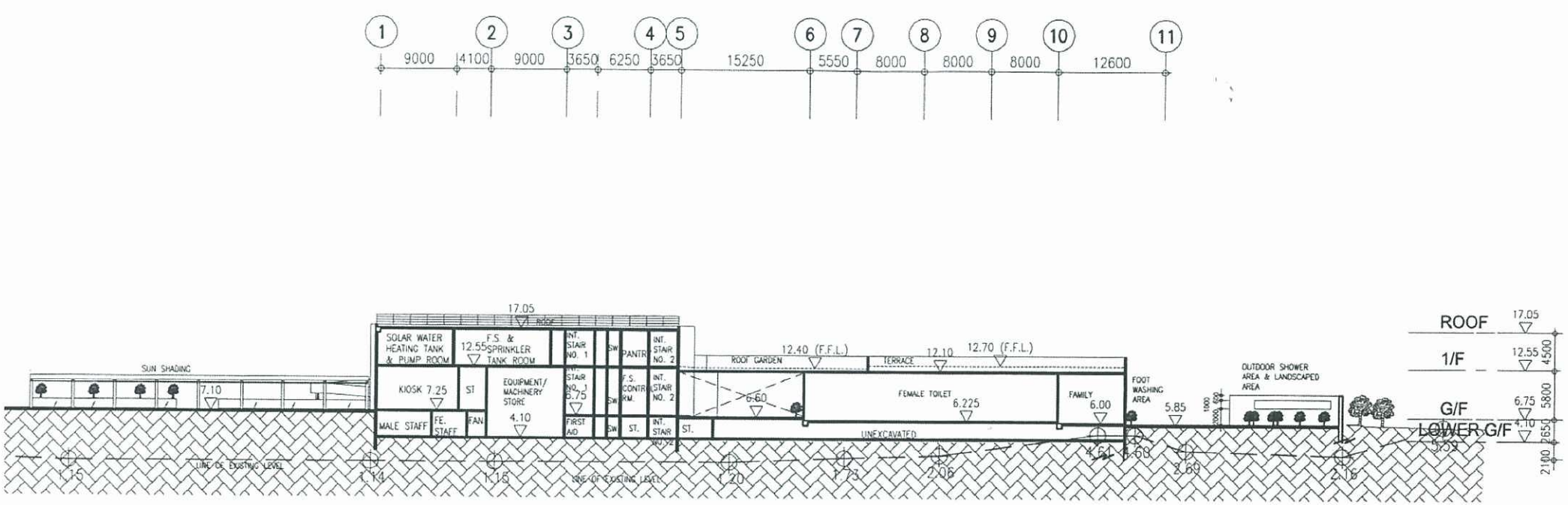
Construction Item		2008			2009											2010											
ID	Activity	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D
1	*Construction Works on Land*																											
1a	site Formation, construction of seawall	0	0	111	111	111	111	111	110.9	110.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1b	road widening at Ting Kok Road	0	0	107	107	107	107	107	107	107	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Total SWL	*0*	*0*	*113*	*113*	*113*	*113*	*113*	*113*	*113*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
	Noise Level at NSR (dB(A))	**0**	**0**	**65**	**65**	**65**	**65**	**65**	**65**	**65**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
2	*Car Park Paving*	0	0	0	0	0	0	0	0	0	111	111	111	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Total SWL	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*111*	*111*	*111*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
	Noise Level at NSR (dB(A))	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**63**	**63**	**63**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
3	*Building Works*																											
3a	piling works	0	0	0	0	0	0	0	0	0	106	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3b	foundation and tanking	0	0	0	0	0	0	0	0	0	0	108	108	108	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3c	superstructure	0	0	0	0	0	0	0	0	0	0	0	0	0	109	109	109	109	0	0	0	0	0	0	0	0	0	0
3d	building finishes & internal fitting-out	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	109	109	109	109	109	109	109	109	109	0
	Total SWL	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*106*	*108*	*108*	*108*	*109*	*109*	*109*	*109*	*109*	*109*	*109*	*109*	*109*	*109*	*109*	*109*	*109*	*0*
	Noise Level at NSR (dB(A))	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**61**	**62**	**62**	**62**	**63**	**63**	**63**	**63**	**63**	**63**	**63**	**63**	**63**	**63**	**63**	**63**	**63**	**0**
4	*Dredging of Groynes*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	114	114	0	0	0	0	0	0	0	0	0	0	0
	Total SWL	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*114*	*114*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
	Noise Level at NSR (dB(A))	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**62**	**62**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
5	*Rock filling of Groynes*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	110	110	110	0	0	0	0	0	0	0	0
	Total SWL	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*110*	*110*	*110*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
	Noise Level at NSR (dB(A))	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**60**	**60**	**60**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
6	*Box Culvert Construction*																											
6a	construction of gabion channel	0	0	0	0	0	110	110	110	110	110	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Noise Level at NSR (dB(A))	**0**	**0**	**0**	**0**	**0**	**68**	**68**	**68**	**68**	**68**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
6b	construction of western culvert	0	0	0	0	0	0	0	0	0	0	112	112	112	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Noise Level at NSR (dB(A))	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**71**	**71**	**71**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
6c	construction of eastern culvert	0	0	0	0	0	0	0	0	0	0	0	0	0	104	0	0	0	0	0	0	0	0	0	0	0	0	0
	Noise Level at NSR (dB(A))	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**49**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
6d	construction of 90m box culvert	0	0	0	0	0	0	0	0	0	0	0	0	0	0	103	103	103	103	103	103	103	0	0	0	0	0	0
	Noise Level at NSR (dB(A))	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**48**	**48**	**48**	**48**	**48**	**48**	**48**	**0**	**0**	**0**	**0**	**0**	**0**
7	*Sand Filling*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	109	109	109	109	0	0	0	0	0
	Total SWL	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*109*	*109*	*109*	*109*	*0*	*0*	*0*	*0*	*0*
	Noise Level at NSR (dB(A))	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**57**	**57**	**57**	**57**	**0**	**0**	**0**	**0**	**0**
OVERALL NOISE LEVEL AT NSR (dB(A))		**0**	**0**	**65**	**65**	**65**	**70**	**70**	**70**	**70**	**70**	**72**	**72**	**71**	**63**	**66**	**66**	**65**	**65**	**66**	**64**	**64**	**64**	**63**	**63**	**63**	**63**	**0**

Appendix D6

Operational Noise Assessment



Client: CEDD, CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT	Consulting Engineer: Halcrow China Ltd. / ERM, Environmental Resources Management as sub-consultant	Agreement No.: CE 59/2005(EP)	ENVIRONMENTAL IMPACT ASSESSMENT REPORT	**APPENDIX D6 - FIGURE 1**
		Project Title: DEVELOPMENT OF A BATHING BEACH AT LUNG MEI, TAI PO	Figure Title: PRELIMINARY LAYOUT PLAN	Checked: - / Scale: AS SHOWN / Rev.: 3
				Designed: - / Drawn: KK / Date: 06/07/2007



Client: CEDD, CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT	Consulting Engineer: Halcrow China Ltd.; ERM, Environmental Resources Management as sub-consultant	Agreement No.: CE 59/2005(EP)	ENVIRONMENTAL IMPACT ASSESSMENT REPORT	**APPENDIX D6 - FIGURE 2**
		Project Title: DEVELOPMENT OF A BATHING BEACH AT LUNG MEI, TAI PO	Figure Title: SECTION A - A	Checked: PS; Scale: AS SHOWN; Rev.: 2; Designed: -; Drawn: KK; Date: 06/07/2007

Appendix D6 Operational Noise Assessment

NSR: *N1, Village House - No.165A Lung Mei*

Location	Plant Item	Reference	No. of Plant	SWL, dB(A)	Distance to the source, m	Correction, dB(A)					Corrected Noise Level, dB(A)
						No. of plant	Distance	Operating Period[2]	Barrier[3]	Facade	
Lift Machine Room	Mechanical fan	-[1]	1	88	160	0	-52	0	0	3	39
Plant Room	Mechanical fan	-[1]	1	88	180	0	-53	0	0	3	38
	Pump	-[1]	3	92	180	5	-53	0	-10	3	37
Water Tank & Pump Room	Mechanical fan	-[1]	1	88	160	0	-52	0	0	3	39
	Pump	-[1]	3	92	160	5	-52	0	-10	3	38
Generator Room	Mechanical fan	-[1]	1	88	160	0	-52	0	0	3	39
	Generator	CNP 101	1	100	160	0	-52	0	-10	3	41
Pump & Sump Tank Room	Mechanical fan	-[1]	1	88	100	0	-48	0	0	3	43
	Pump	-[1]	3	92	100	5	-48	0	-10	3	42
Car Park	Loudspeaker cluster	-[1]	1	100	218	0	-55	-9	0	3	39
Bathing beach (safeguard lookout)	Loudspeaker cluster	-[1]	1	100	222	0	-55	-9	0	3	39
	Loudspeaker cluster	-[1]	1	100	126	0	-50	-9	0	3	44
Facility building	Loudspeaker cluster	-[1]	1	98	95	0	-48	-9	0	3	45
	Loudspeaker cluster	-[1]	1	98	142	0	-51	-9	0	3	41
	Loudspeaker cluster	-[1]	1	98	167	0	-52	-9	-5	3	35
									Predicted Operational Noise Level at the NSR		52

NSR: *N2, Village House - No.103 Lung Mei*

Location	Plant Item	Reference	No. of Plant	SWL, dB(A)	Distance to the source, m	Correction, dB(A)					Corrected Noise Level, dB(A)
						No. of plant	Distance	Operating Period[2]	Barrier[3]	Facade	
Lift Machine Room	Mechanical fan	-[1]	1	88	132	0	-50	0	0	3	41
Plant Room	Mechanical fan	-[1]	1	88	152	0	-52	0	0	3	39
	Pump	-[1]	3	92	152	5	-52	0	-10	3	38
Water Tank & Pump Room	Mechanical fan	-[1]	1	88	132	0	-50	0	0	3	41
	Pump	-[1]	3	92	132	5	-50	0	-10	3	39
Generator Room	Mechanical fan	-[1]	1	88	132	0	-50	0	0	3	41
	Generator	CNP 101	1	100	132	0	-50	0	-10	3	43
Pump & Sump Tank Room	Mechanical fan	-[1]	1	88	78	0	-46	0	0	3	45
	Pump	-[1]	3	92	78	5	-46	0	-10	3	44
Car Park	Loudspeaker cluster	-[1]	1	100	186	0	-53	-9	0	3	41
Bathing beach (safeguard lookout)	Loudspeaker cluster	-[1]	1	100	197	0	-54	-9	-5	3	35
	Loudspeaker cluster	-[1]	1	100	110	0	-49	-9	-5	3	40
Facility building	Loudspeaker cluster	-[1]	1	98	74	0	-45	-9	0	3	47
	Loudspeaker cluster	-[1]	1	98	107	0	-49	-9	-5	3	39
	Loudspeaker cluster	-[1]	1	98	142	0	-51	-9	-5	3	36
									Predicted Operational Noise Level at the NSR		53

NSR: *N2a, House - No.101 Lung Mei*

Location	Plant Item	Reference	No. of Plant	SWL, dB(A)	Distance to the source, m	Correction, dB(A)					Corrected Noise Level, dB(A)
						No. of plant	Distance	Operating Period[2]	Barrier[3]	Facade	
Lift Machine Room	Mechanical fan	-[1]	1	88	147	0	-51	0	0	3	40
Plant Room	Mechanical fan	-[1]	1	88	158	0	-52	0	0	3	39
	Pump	-[1]	3	92	158	5	-52	0	-10	3	38
Water Tank & Pump Room	Mechanical fan	-[1]	1	88	147	0	-51	0	0	3	40
	Pump	-[1]	3	92	147	5	-51	0	-10	3	38
Generator Room	Mechanical fan	-[1]	1	88	147	0	-51	0	0	3	40
	Generator	CNP 101	1	100	147	0	-51	0	-10	3	42
Pump & Sump Tank Room	Mechanical fan	-[1]	1	88	64	0	-44	0	0	3	47
	Pump	-[1]	3	92	64	5	-44	0	-10	3	46
Car Park	Loudspeaker cluster	-[1]	1	100	184	0	-53	-9	0	3	41
Bathing beach (safeguard lookout)	Loudspeaker cluster	-[1]	1	100	196	0	-54	-9	-5	3	35
	Loudspeaker cluster	-[1]	1	100	102	0	-48	-9	-5	3	41
Facility building	Loudspeaker cluster	-[1]	1	98	64	0	-44	-9	0	3	48
	Loudspeaker cluster	-[1]	1	98	109	0	-49	-9	-5	3	39
	Loudspeaker cluster	-[1]	1	98	140	0	-51	-9	-5	3	36
									Predicted Operational Noise Level at the NSR		54

NSR: *N3, Village House - No.70 Lo Tsz Tin*

Location	Plant Item	Reference	No. of Plant	SWL, dB(A)	Distance to the source, m	Correction, dB(A)					Corrected Noise Level, dB(A)
						No. of plant	Distance	Operating Period[2]	Barrier[3]	Facade	
Lift Machine Room	Mechanical fan	-[1]	1	88	130	0	-50	0	0	3	41
Plant Room	Mechanical fan	-[1]	1	88	130	0	-50	0	0	3	41
	Pump	-[1]	3	92	130	5	-50	0	-10	3	40
Water Tank & Pump Room	Mechanical fan	-[1]	1	88	130	0	-50	0	0	3	41
	Pump	-[1]	3	92	130	5	-50	0	-10	3	40
Generator Room	Mechanical fan	-[1]	1	88	130	0	-50	0	0	3	41
	Generator	CNP 101	1	100	130	0	-50	0	-10	3	43
Pump & Sump Tank Room	Mechanical fan	-[1]	1	88	140	0	-51	0	0	3	40
	Pump	-[1]	3	92	140	5	-51	0	-10	3	39
Car Park	Loudspeaker cluster	-[1]	1	100	130	0	-50	-9	0	3	44
Bathing beach (safeguard lookout)	Loudspeaker cluster	-[1]	1	100	162	0	-52	-9	0	3	42
	Loudspeaker cluster	-[1]	1	100	162	0	-52	-9	-5	3	37
Facility building	Loudspeaker cluster	-[1]	1	98	152	0	-52	-9	0	3	41
	Loudspeaker cluster	-[1]	1	98	121	0	-50	-9	-5	3	38
	Loudspeaker cluster	-[1]	1	98	137	0	-51	-9	-5	3	37
									Predicted Operational Noise Level at the NSR		52

NSR: *N4, Village House - No.79 Lo Tsz Tin*

Location	Plant Item	Reference	No. of Plant	SWL, dB(A)	Distance to the source, m	Correction, dB(A)					Corrected Noise Level, dB(A)
						No. of plant	Distance	Operating Period[2]	Barrier[3]	Facade	
Lift Machine Room	Mechanical fan	-[1]	1	88	195	0	-54	0	0	3	37
Plant Room	Mechanical fan	-[1]	1	88	185	0	-53	0	0	3	38
	Pump	-[1]	3	92	185	5	-53	0	-10	3	36
Water Tank & Pump Room	Mechanical fan	-[1]	1	88	195	0	-54	0	0	3	37
	Pump	-[1]	3	92	195	5	-54	0	-10	3	36
Generator Room	Mechanical fan	-[1]	1	88	195	0	-54	0	0	3	37
	Generator	CNP 101	1	100	195	0	-54	0	-10	3	39
Pump & Sump Tank Room	Mechanical fan	-[1]	1	88	240	0	-56	0	0	3	35
	Pump	-[1]	3	92	240	5	-56	0	-10	3	34
Car Park	Loudspeaker cluster	-[1]	1	100	170	0	-53	-9	0	3	42
Bathing beach (safeguard lookout)	Loudspeaker cluster	-[1]	1	100	197	0	-54	-9	0	3	40
	Loudspeaker cluster	-[1]	1	100	251	0	-56	-9	-5	3	33
Facility building	Loudspeaker cluster	-[1]	1	98	258	0	-56	-9	-5	3	31
	Loudspeaker cluster	-[1]	1	98	213	0	-55	-9	-5	3	33
	Loudspeaker cluster	-[1]	1	98	208	0	-54	-9	-5	3	33
									Predicted Operational Noise Level at the NSR		49

Note:
(1) Maximun Sound Power Levels of the equipment will be specified in the Tender Specification
(2) The PA system will be used occasionally. According to the information provided by LCSD, the operating time of the PA system will be 4 minutes in every 30 minutes.
(3) Negative correction factor of 10dB(A) has been applied in the assessment for the equipment located within a building and 5dB(A) for the NSR with no direct line of sight to the equipment.