## **Appendix 4-5A**

Calculation of Cumulative Construction Noise Due to Approved and Planned Developmetn Projects including Planned "REC Site"

# Appendix 4-5A Assessment on Cumulative Construction Noise Taking into Account Concurrent Construction with the Planned "REC" Site

#### Introduction

project

Cumulative construction noise impacts due to approved EIA projects as well as nearby planned development sites, have been assessed in Section 4.8 of the EIA report. It was identified in Section 4.8.1 that concurrent construction of the approved cycle track project; approved public sewerage project; as well as planned "Kam Pok Road Site", and "RD Site" may potentially occur during the construction of this Project given. Thus, cumulative construction noise impacts due to these planned projects have been assessed accordingly. For the planned "REC site", there was no updated project information available previously, thus cumulative noise impact was not assessed.

Calculated cumulative construction noise levels taking into account the above-mentioned planned projects have been provided in Section 4.8, and the results are summarised in **Table 4-17**.

Given that the planned "REC Site" EIA report has recently been approved. Construction programme of the planned "REC Site" in that report has been referenced, and cumulative construction noise impact has been assessed accordingly.

## **Identification of Overlapped Construction Activities**

Given that a solid construction programe for the planned "REC Site" has now become available, cumulative construction activities due to concurrent construction of this Project and that of the planned "REC Site" project, has been identified.

It is found that overlapping of construction works of these two projects will occur between April 2017 and September 2018. The concerned concurrent construction activities are highlighted in the construction programe attached in **Annex A**, which are also summarized below.

					2017									2018				
	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
This Project	Q+V +R				S	+T					S	:	S+U			U		
Planned "REC Site"		orthern:			orthern:	D	Northerr Nil Souther			s	Northe						ern: A+	

Having considered the above concurrent construction activities of the two projects, the following combinations of concurrent works have been selected for further noise calculation, which would represents cumulative noise under a worst case scenario.

D

Combination	This Project	Planned "REC Site" project
1	Q+V+R	Northern: Nil
		Southern: D
2	S+T	Northern: D
		Southern: D
3	S+U	Northern: Nil
		Southern: A+G+F
4	U	Northern: A+G
		Southern: Nil

### **Calculation of Cumulative Construction Noise Level**

With regard to the above, calculated mitigated construction noise levels due to this Project were directly extracted from Appendix 4-3C and Appendix 4-3B, which are also extracted in Annex C below for ease of reference.

While the calculated construction noise levels due to the planned "REC Site" project were directly extracted from its EIA report (also attached in Annex B below).

The above four combinations of concurrent works have been tested, and the results are presented in Annex D below.

It was found that construction of the planned "REC Site" project will not have adverse impact as the calculated cumulative construction noise level would still be within the relevant noise criteria. As such, no unacceptable noise impact is anticipated.

Annex A

Construction Programme of this Project and that of the planned "REC" Site

Appendix 1-1 Project Implementation Programme

									_					2016													017											_	2018		
Construction Activity	Ju	ıl <i>F</i>	Aug	Sep	Oct 1	Nov	Dec	Jan	Fel	b Ma	ar Ap	r Ma	ıy Jı	un J	ul Au	ıg Se	p O	ct No	ov D	ec Ja	an F	eb M	Mar	Apr	May	Jun	Jul	Aug	g Se	р О	ct N	lov	Dec J	lan	eb M	ar Ap	or Ma	y Ju	n Ju	ul A	Aug S
Installation of Hoarding around the Wetland Restoration Area (Phase A)	+++		Ш		_ _	+	-				##	$\perp$											1										$\bot$	$\bot \downarrow$		Ш	$\perp$	44			$\bot \downarrow$
Wetland Restoration (Phase A)	+	+		+		+			H			+							++			+	╁					+	+				+	+	+		+	+			$\dagger \dagger$
Construction of wetland: Reprofiling of pond	$\pm$	+++		A						+					1 1 1								+ †	$\dashv$			++	+	+++	+			++	+	++-		++	$\pm$	+		++
Construction of wetland: Vegetation Planting work (no PMEs involved)	111	$\pm$	ПП										11								t		+ †					+	+++	+		1 1	+	+			+++	$\pm$	+++		++
Construction of temporary refuge for amphibians	111	$\pm \pm \pm$	TTT		11	$\top$			-	$\neg$			H		1 1 1									1								1 1	11	+			11	$\exists t$	11		
Vegetation clearance		E	3	T	T	11							tt										17	11				T	T	1		tt		T			T	T			
Establishment of wetland (no PMEs involved)			Ш																																						
,																							11																		
Temporary enhancement area in operation		$\square$	$\square$																				1	-					+			$\blacksquare$		$\blacksquare$			$\blacksquare$	$\blacksquare$	$\blacksquare$		$\vdash$
Site Formation/ Preloading (Phase B)	$\pm \pm \pm$	$\pm \pm \pm$			+	+													+			1 1	+ ;					+	+				+	+	+						$\dagger \dagger$
General Site Clearance	$\pm$	$\pm$	ttt		$\pm \pm$	(	C	H	1				H										++	$\pm$			+		+++			1 1		+			+++	$\pm$	+ + +		+
Retaining Wall Construction (including BA14 submission for piling or soil improvement works)	111	$\pm$	$\dagger \dagger \dagger$	$\pm$	$\pm \pm$		_	D					11								t		1					+	+++	+		1 1	+	+			+++	$\pm$	+++		++
Installation of Vertical Drain	+	+	$\dagger \dagger \dagger$	$\top$	$\top \top$	$\top \!$	$\top$	Е	П				H		$\sqcap \sqcap$			$\Box \Box$	TT	Ш			1 1	$\top$			TT	11	$\top$	$\top$	$\vdash$	+	$\top$	$\top$		ш	$\top$	$\top \!$	$\exists \exists$	TT	TT
Placement of Fill and Surcharge	111	111	TTT	$\top$	11	11			F						ПП								T I				TT	$\top$	11	$\Box$		TT		TT				$\top$		ΠĦ	TT
Preloading (for 4 months)				11	山上	ŢŢ			ፗᅦ	$\Box \Box$	$\perp \!\!\! \perp$												<b>⊥</b> !						$\perp$					$\perp \mid$							LΤ
Removal of Surcharge	$\top \Box \top$	$\top$	$\prod$															C											$\Box$												
Removal of Surcharge BA 14 Submission	$+\!+\!+$	+++	+++	+	++	+	+	$\vdash\vdash$	++	+	+	+	₩	⊢⊢	++	+		G			⊢⊢	╁┼	+ :	+	$\vdash\vdash$	$\vdash\vdash$	╁┼	++	++	+	$\vdash\vdash$	++	+	╁┼	+	$\vdash\vdash\vdash$	$\dashv$	+	+	$\vdash\vdash$	₩
ווטפאוווטטט דו חש	+++	+++	+++	++	++	++	+	$\vdash$	++	++	++	+	+	++	+++	+		++	++		$\vdash$	++	+ [	+	$\vdash\vdash$	$\vdash\vdash$	++	++	++	+	+	++	++	++	++	+++	++	++	+	$\vdash\vdash$	++
Site Formation/ Brolonding (Bhoos C)	+++	+++	${}^{++}$	++	++	+	+	H	++	+	+	+	+	$\vdash$	++	+		H	+	H	H	++	+ 6	+	$\vdash\vdash$	H	++	++	+	+	$\vdash$	++	+	++	+	$\vdash$	+	+	+	$\vdash$	++
Site Formation/ Preloading (Phase C)	+++	+++	+++	$+\!\!+\!\!\!+$	++	$+\!\!+\!\!\!+$	+	$\vdash$	++	++	$\perp$		$\vdash$	$\vdash$	+++	$\dashv$		$\vdash$	++	$\vdash \vdash \vdash$	$\vdash\vdash$	++	+ [	+	$\square$	$\vdash\vdash$	++	+	+	+	$\perp$	++	+	++	+	$\sqcup \sqcup$	+	$+\!\!+\!\!\!+$	$\dashv$	$\vdash \vdash$	++
General Site Clearance	$+\!+\!+$	+++	₩	+	++	$+\!+$	+	$\vdash \vdash$	++	$+\!+$	+	Н						$+\!\!+\!\!\!-$	+	$\vdash\vdash\vdash$	$\vdash\vdash$	++	+	+	$\vdash\vdash$	$\vdash\vdash$	++	++	+	+	$\vdash\vdash$	++	+	++	++	$\vdash \vdash \vdash$	+	₩	$\dashv$	$\vdash\vdash$	++
Retaining Wall Construction (including BA14 submission for piling or soil improvement works)	+++	+++	+++	+	++	++	+	$\vdash\vdash$	++	++	++	+ +	-					₩	+	$\vdash\vdash\vdash$	$\vdash\vdash$	++	++	+	$\vdash\vdash$	-	++	++	++	+	$\vdash\vdash$	++	++	++	++	${++}$	+	++	$\dashv$	$\vdash\vdash$	++
Installation of Vertical Drain	+++	+++	+++	++	++	++	+	$\vdash$	++	++	++	+	J	1/				$\vdash$	++	+	$\vdash\vdash$	++	++	+	$\vdash\vdash$	$\vdash\vdash$	++	++	++	+	+	++	++	++	++	++	++	++	+	$\vdash\vdash$	++
Placement of Fill and Surcharge	$+\!+\!+$	+++	+++	+	++	+	+	$\vdash\vdash$	++	+	+	+	₩	K								╁┼	++	+	$\vdash\vdash$	$\vdash\vdash$	╁┼	++	++	+	$\vdash\vdash$	++	+	╁┼	+	$\vdash\vdash\vdash$	$\dashv$	+	+	$\vdash\vdash$	₩
Preloading (for 4 months)	$+\!+\!+$	+++	+++	+	++	+	+	$\vdash\vdash$	++	+	+	+	₩	⊢⊢	++	+							++	+	$\vdash\vdash$	$\vdash\vdash$	╁┼	++	++	+	$\vdash\vdash$	++	+	╁┼	+	$\vdash\vdash\vdash$	$\dashv$	+	+	$\vdash\vdash$	₩
Removal of Surcharge	Ш	Ш	Ш		$\perp \! \! \perp \! \! \perp$								Ш		Ш			$\coprod$			L						Ш		$oldsymbol{ol}}}}}}}}}}}}}}}}}}}}}$					Ш				$oldsymbol{ol}}}}}}}}}}}}}}}}}}}}$			Ш
BA 14 Submission	Ш												Ш																					Ш							
					$\perp \!\!\! \perp \!\!\! \perp$	$oldsymbol{ol{ol{ol}}}}}}}}}}}}}}}$			$oldsymbol{ol{ol{ol}}}}}}}}}}}}}}}}}$			$\perp \! \! \! \! \perp \! \! \! \! \! \! \! \! \! \! \! \! \! \!$	Ш																$\perp \!\!\! \perp$			$oldsymbol{ol{ol{ol}}}}}}}}}}}}}}}}$		$oldsymbol{ol}}}}}}}}}}}}}}$							
Site Formation/ Preloading (Phase D)						$\prod$						TI																	TT									T			
General Site Clearance	+++	+++	+++	+	++	++	+	$\vdash \vdash$	++	++	+	+	M		+++			++	+	H	$\vdash$	++	+ 1	+		$\vdash$	++	++	++	+	+	++	+	++	+	$\vdash$	+	$\dashv \dagger$	$\dashv$	$\vdash \vdash$	++
Retaining Wall Construction (including BA14 submission for piling or soil improvement works)	+	+	H	+	+	+	$\top$	H	$\dagger \dagger$	$\dashv \dagger$	+	$\pm \pm$	1 1	N					ff	HH		+	+ 1	+	$\vdash$	H	++	++	+	+	$\vdash$	+ +	+	++	+	HH	$\dashv$	$\pm \pm$	$\pm$	Ħ	+ +
Installation of Vertical Drain	+++	+++	+++	+	++	++	+	$\vdash$	++	+	+	++	+	0					+	$\vdash \vdash \vdash$		++	+ :	+	$\vdash\vdash$	$\vdash$	++	++	++	+	+	++	+	++	++	$\vdash$	+	++	+	$\vdash$	++
Placement of Fill and Surcharge	+++	+++	+++	+	++	++	+	$\vdash \vdash$	++	++	+	+	H		Р				+	H	$\vdash$	++	+ 6	+		$\vdash$	++	++	++	+	+	++	+	++	+	$\vdash$	+	$\dashv \dagger$	$\dashv$	$\vdash \vdash$	++
Preloading (for 4 months)	+	+	H	+	+	$\pm \pm$	$\top$	H	$\dagger \dagger$	$\dashv \dagger$	+	$\pm \pm$	tt	++	П								+ 6	+	$\vdash$	H	++	++	+	+	$\vdash$	+ +	+	++	+	HH	$\dashv$	$\pm \pm$	$\pm$	Ħ	+ +
Removal of Surcharge	+++	<del>         </del>	$\dagger \dagger \dagger$	+	+	+			$\dagger \dagger$	$\dashv \dagger$	+	+	H	+	$\Box$	$\dashv$							0				+	+	+	$\top$	-	$\dagger \dagger$	+	$\dagger \dagger$	+	$\Box$	$\top$	$\dashv \dagger$	$\dashv$	$\vdash$	$\dagger \dagger$
Removal of Surcharge BA 14 Submission	+++	+++	+++	++	++	++	+	$\vdash\vdash$	++	++	+	+	$\vdash$	++	+++	+		₩	++	HH	$\vdash\vdash$	++	Q			$\vdash\vdash$	++	++	++	+	$\vdash\vdash$	++	+	++	++	+++	++	$+\!+$	$\dashv$	$\vdash\vdash$	++
III)IIIIIIII H DA III	$+\!+\!+$	+++	+++	+	++	+	+	$\vdash\vdash$	++	+	+	+	₩	⊢⊢	++	+		⊢⊢	+	$\vdash\vdash\vdash$	⊢⊢	++	++	+		$\vdash\vdash$	╁┼	++	++	+	$\vdash\vdash$	++	+	╁┼	+	$\vdash\vdash\vdash$	$\dashv$	+	+	$\vdash\vdash$	₩
Transcilling of disease to sales are boul good disease southered as streetly and alter formation ( )	+++	+++																							$\vdash\vdash$	$\vdash\vdash$	++	++	++	+	+	++	++	++	++	++	+	++	+	$\vdash\vdash$	++
Travelling of dump trucks on haul road during wetland restoration and site formation/ preloading																																									
stage	$+\!+\!+$	111		-					+																$\vdash\vdash$	$\vdash \vdash$	++	++	$+\!+\!$	+	$\vdash$	++	+	++	+	$\sqcup \sqcup$	+	$\dashv$	$\dashv$	$\vdash \vdash$	++
	+++	+++	+++	+	++	++	+	$\vdash\vdash$	++	++	++	+ +	$\vdash\vdash$	$\vdash$	+++	+	$\vdash$	-					-		$\vdash\vdash$	-	++	++	++	+	$\vdash\vdash$	++	++	++	++	${++}$	+	++	$\dashv$	$\vdash\vdash$	++
Foundation (Phases B, C and D only)	$+\!\!+\!\!\!\perp$	+ + +	Ш	$\perp \perp$	$\bot \bot$	$\perp \downarrow$	$\perp$		$\perp \perp$	$\perp \downarrow \downarrow$	$\perp \perp$	$\perp \! \! \perp$	$\sqcup \! \! \! \! \! \perp$	$\perp \perp$	Ш		$\Box$	R							$\Box$		$\bot \bot$	$\bot \bot$	$\perp \downarrow$	Ш		$\perp \perp$	$\perp \perp$	$\bot \bot$	$\bot \bot$	ш			$\perp \downarrow \downarrow$	$\Box$	$\bot \bot$
	$+\!\!+\!\!\!\perp$	+ + +	Ш	$\perp \perp$	$\bot \bot$	$\perp \downarrow$	$\perp$		$\perp \perp$	$\perp \downarrow \downarrow$	$\perp \perp$	$\perp \! \! \perp$	$\sqcup \! \! \! \! \! \perp$	$\perp \perp$	Ш		$\Box$	$\sqcup \!\! \perp$	$\sqcup \sqcup$	Ш	lacksquare		11	$\perp$	oxdot		$\bot \bot$	$\perp \perp$	$\perp \downarrow$	$\perp$	$\Box$	$\perp \perp$	$\bot \bot$	$\bot \bot$	$\bot \bot$	$\sqcup \sqcup$			$\perp \downarrow \downarrow$	$\Box$	$\bot \bot$
Superstructure Construction (Phases B, C and D only)																							[		S																
	+	+	$\dagger \dagger \dagger$	$\top$	$\top \top$	$\top \!$	$\top$	ΙT	$\dagger \dagger$	$\dashv \dagger$	$\top$	$\top$	H		$\sqcap \sqcap$			$\Box \Box$	TT	Ш			11	$\top$													$\top$	$\top \!$	$\exists \exists$	TT	TT
Construction of Underground Services and Utilities (Phases B, C and D only)	+	+	$\dagger\dagger$	$\top \top$	$\top \top$	$\top \!$	$\top$		$\dagger \dagger$	$\dashv \dagger$		$\top$	Ħ		$\Box\Box$			Ħ	TT	H	Ħ		11	$\top$	Т				T				$\top$	TT	$\dagger \dagger$	HH	$\top$	$\top$	1	ΙT	TT
Contraction of Onderground Corrides and Califies (Filases D, Calif D Only)	+++	$\pm \pm \pm$	${}^{++}$	+ +	++	+	+	H	++	+	+	+	+	$\vdash$	++	+		H	+	H	H	++	+ :	+		H			++				++	++		$\vdash$	+	+	+	$\vdash$	++
Roadworks Construction (Phases B, C and D only)	+++	+++	+++	++	++	++	+	$\vdash$	++	++	+	+	$\vdash$	++	+++	$\dashv$		$\vdash$	+	Н	HT	++	+-6	+	$\vdash$	$\vdash$	++	++	+	+	$\vdash$	++	+	++	+						
NOGUMOINS CONSTITUTION (FINASES D, C AND D UNITY)	$+\!+\!+$	+++	+++	+	++	+	+	$\vdash\vdash$	++	+	+	+	₩	⊢⊢	++	+		⊢⊢	+	$\vdash\vdash\vdash$	⊢⊢	╁┼	+-[-	+	$\vdash\vdash$	$\vdash\vdash$	╁┼	++	++	+	$\vdash\vdash$	++	+	╁┼	+	0					
			ш					ш_					Ш_					ш_								ш_	1														
																																	_								
								1																																	
								Ī	1					\	>	_																									
Concurrent Construction Activities								1					_	<u>,</u>   3	<u>+</u>	<del>_</del>			Ļ.				!																		
OUTOMITOR CONSTRUCTION ACTIVITIES								>	.			>	1	£   }	÷	Ŧ	>	>	<b></b>			$\alpha$	0	ŗ																	
			>		>		>	<b>ф</b>	ı			<u></u> †  >	>   2	V+M+C+1	Ŧ	+ V+ X+ Y+	d+d +d+N	<u> </u>	G+V+R+	×+ +		+V+R		-				H	<del>.</del>							,					
			B+V		+ A		C+V	<u></u>	Т.			<u>†</u>	Ē 📑	<u> </u>	÷	<u>±</u>	±	Ż	ф		]	<u>+</u>		5					- 6							S+					
Duration of Concurrent Works (months)								l				2	n										[													.5					
	1 1					- 1		i				ج. د			1				1.5		1	1.5	_	1.5				10	0												

Construction activities that will be constructed concurrently with the planned "REC Site"

Extracted from Appendix 1-1, "Environmental Impact Assessment Proposed Residential cum Passive Recreational Development within "Recreation" ("REC") Zone and "Residential (Group C)" Zone at Various Lots in DD104, Yuen Long, N.T." (EIA-220/2014).

Appendix 1-1 Fairview Park REC Site Construction Programme 2018 M4 M5 M6 M7 M8 M9 M10 M11 M12 M1 M2 M3 M4 M5 M6 M7 M8 M9 Site Formation (Northern Portion): Site clerance and preparation Site Formation, Filling and Dump Trucks Travelling on Haul Road during Site Site Formation (Southern Portion): Site clerance and Site Formation, Filling and on Haul Road during Site Formation Sub-structure (Pile Cap) (for southern portion F Southern Portion Foundation (piling) D Northern Portion D Southern Portion Superstructure E Northern Portion E Southern Portion B Northern Portion B Southern Portion Roadworks C Northern Portion C Southern Portion NII; A+G+F nii; B+C Ю́ш Construction Activities

### Pamark:

The above Construction Programme for Site Formation is prepared with the following assumption: Working hours = 08:00 to 18:00 hours

Working hours = 08:00 to 18:00 hours
Working days = 25 days per months

Working days – 23 days per monu

**Duration of Concurrent** 

Construction activities that will be constructed concurrently with the planned "Yau Mei Site"

Annex B

Extracted Information from the Planned "REC Site" EIA report (EIA-220/2014)

Table 4-19 Mitigated Construction Noise Levels With the Use of QPMEs, Movable Noise Barriers and Temp. Fixed Noise Barriers #

N2 Pariview Park 57 56 55 58 65 57 70 69 77 72 70 64 77 73 74 60 70 70 70 70 70 70 73 74 77 78 78 78 78 78 78 78 78 78 78 78 78				No	rthern	Porti	on				South	em P	ortion					Northern and	d Southern Po	ortions *				
Marchen   Park   September		Descriptions	Α	В	С	D	E	G	Α	В	С	D	Е	F	G		Noise Le	vel Due To Co	ncurrent Cons	struction Activ	rities			Noise Criteria
NZ Garriew Park			Filling and Ex	struction of Underground Utilities	Road works	Foundation (Piling)	Superstructure	rucks Travelling Site Formation	Filling and	of Underground	Road works	(P)	Superstructure	(Pile	rucks Travelling on Site Formation		Southem:	A+G;				nil; Southem:	Noise Level (due to REC site), dB(A)	
NZ Garriew Park	N1	Fairview Park	56	54	54	57	54	56	71	70	72	74	71	71	64	74	74	59	71	71	71	74	74	75
N3 Fairwiew Park			_	_	_	_	-		_	_		73			-									75
NA   Faniview Park   66   64   67   64   61   66   65   68   68   68   68   69   59   71   70   70   70   70   70   70   71   71	$\overline{}$		_	_	_	_	_	-	_	_		68												75
Reference Park   72   70   70   73   70   64   63   62   64   65   65   65   73   70   70   70   70   70   70   70	N4	Fairview Park	66	64	64	67	64	61	66	66	67	68	68	66	59	71	70	67	70	70	70	70	71	75
NR Chuk Yuen Tauen  S9 57 57 60 57 89 49 49 48 50 53 45 66 60 66 70 57 57 57 57 57 57 57 57 57 60 67 71 71 71 71 71 71 71 71 71 71 71 71 71	N5	Fairview Park	72	70	70	73	70	64	58	57	59	61	58	58	58	73	63	72	70	70	70	61	73	75
N8 Chuk Yuen Tsuen	N6	Fairview Park	72	70	70	73	70	64	53	52	54	56	53	53	55	73	59	73	70	70	70	56	73	75
N9 Chuk Yuen Tauen	N7	Yau Mei San Tsuen	59	57	57	60	57	69	49	48	50	52	49	49	66	60	66	70	57	57	57	53	70	75
NTO   Bethel High School   56   55   54   56   55   54   56   55   56   56	N8	Chuk Yuen Tsuen	59	57	57	60	57	58	54	53	55	57	54	54	56	62	59	61	59	59	59	57	62	75
No. 10 belier Physical Color   20   20   20   20   20   20   20   2	N9	Chuk Yuen Tsuen	59	57	57	60	57	57	53	52	54	56	53	53	55	61	59	61	58	58	58	56	61	75
N12   Villa Camilia   53   51   51   54   51   54   51   54   56   55   57   58   56   56   57   60   61   77   71   71   58   68   68   68   71   71   71   71   71   71   71   7	N10	Bethel High School	56	55	54	56	56	53	66	66	67	68	68	66	59	68	69	58	68	68	68	69	69	exam)
N13 Failwiew Park N14 Vong Chan Sook Ying Wong Chan Sook Ying Wong Chan Sook Ying Monorial School N15 Man Yuen Tsuen S2 50 50 50 53 50 54 60 69 66 60 60 59 61 63 60 60 59 63 64 56 60 60 60 60 60 60 60 60 63 64 77 N16 Pain Springs N17 Pain Springs N18 Sook S Soo			_	_	_	_		-	_	_					$\overline{}$									75
N14 Wong Chan Sook Ying 53 51 51 54 55 155 63 62 64 66 63 63 60 66 67 57 63 63 63 63 63 66 67 70 (65 during exam N15 Many Year Tsuen S2 50 50 50 53 50 54 60 59 61 63 60 60 59 63 64 56 60 60 60 60 60 60 63 64 77 N16 Fairview Park 68 66 66 68 69 66 62 52 51 53 55 52 52 52 55 69 58 69 58 69 66 66 66 66 55 69 77 N17 Palm Springs 57 55 55 55 55 55 55 55 57 49 48 50 52 49 49 53 59 55 60 56 56 56 56 56 52 60 77 N18 Wei San Tsuen S2 52 50 55 55 55 55 55 55 55 55 55 55 55 55												59												75 75
N15 Man Yuen Tsuen 52 50 50 50 53 50 54 60 59 61 66 60 60 59 61 66 60 60 59 63 64 56 60 60 60 60 60 63 64 78 N16 Fairview Park 68 66 66 69 66 62 52 51 53 53 55 55 50 69 58 69 56 56 56 56 56 60 78 N17 Palm Springs 57 55 55 55 55 55 57 49 48 50 52 49 49 53 59 55 60 56 56 56 56 52 60 78 N18 Temp, house at Yau Mel Stan Tsuen 56 56 56 59 56 57 49 48 50 52 49 49 53 59 56 60 56 56 56 56 52 60 78 N19 Existing village house 54 52 52 55 55 52 55 59 58 60 62 55 59 58 60 62 63 58 59 59 59 62 63 78 N20 Fairview Park 72 70 70 73 70 64 52 51 53 55 52 52 55 52 55 57 3 58 73 70 70 70 70 70 55 73 78 N2P Planned Development at Kam Pok Road Site N2P Planning Development at Kam Pok Road Site N3P Planned Development at Kam Pok Road Site N4P Planned		Wong Chan Sook Ying										66												70 (65 during
N16 Fairview Park 68 66 66 69 68 62 52 51 53 55 52 52 55 69 58 55 7 49 48 50 52 49 49 53 59 55 60 56 56 56 52 60 71 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N15		52	50	50	53	50	54	60	59	61	63	60	60	59	63	64	56	60	60	60	63	64	75
N18 Temp. house at Yau Mei San Tsuen	_		_		_	_		-	_			55	$\overline{}$		$\overline{}$									75
N19 Existing village house 54 52 52 55 52 55 59 58 60 62 59 59 58 62 63 58 59 59 59 62 63 78  N20 Fairview Park 72 70 70 73 70 64 52 51 53 55 52 52 55 73 58 73 70 70 70 70 55 73 78  Planned Development at Yau Mei Site N2P Planned Development at Kam Pok Road Site 63 61 61 64 61 60 64 63 65 67 64 64 61 61 69 68 65 66 66 66 66 67 79  N4P Planned Development at Kam Pok Road Site 63 61 61 64 61 60 62 64 61 61 59 69 69 65 67 66 66 66 66 66 67 79  N5P Planned Development at Kam Pok Road Site 63 61 61 64 61 60 62 64 61 61 59 69 69 65 67 66 66 66 66 66 67 79  N5P Planned Development 63 61 61 64 61 60 52 51 53 55 52 52 55 55 65 65 65 65 65 65 65 79  N5P Planned Development 63 61 61 64 61 60 52 51 53 55 52 52 55 55 65 58 65 65 65 65 65 65 65 79  N5P Planned Development 63 61 61 64 61 60 52 51 53 55 52 52 55 55 65 58 65 58 65 65 65 65 65 65 79  N5P Planned Development 63 61 61 64 61 60 52 51 53 55 52 52 55 55 65 58 65 58 65 62 62 55 55 65 79  N5P Planned Development 63 61 61 64 61 60 52 51 53 55 52 52 55 55 65 58 65 58 65 65 65 65 65 65 65 79  N5P Planned Development 63 61 61 64 61 60 52 51 53 55 52 52 55 55 65 58 65 58 65 65 65 65 65 65 65 65 79  N5P Planned Development 63 61 61 64 61 60 52 51 53 55 52 52 55 55 65 58 65 58 65 65 65 65 65 65 65 65 65 65 65 65 65	N17	Palm Springs	57	55	55	58	55	57	49	48	50	52	49	49	53	59	55	60	56	56	56	52	60	75
N20   Fairview Park   72   70   70   73   70   64   52   51   53   55   52   52   55   73   58   73   70   70   70   70   55   73   78	N18		58	56	56	59	56	57	49	48	50	52	49	49	53	59	56	60	56	56	56	52	60	75
Planned NSRs   N1P   Planned Development at Yau Mei Site   73   71   71   74   71   64   54   53   55   57   54   56   64   61   68   68   59   65   65   65   65   68   68   79   79   79   79   79   79   79   7	N19	Existing village house	54	52	52	55	52	55	59	58	60	62	59	59	58	62	63	58	59	59	59	62	63	75
N1P Planned Development at Yau Mei Site	N20	Fairview Park	72	70	70	73	70	64	52	51	53	55	52	52	55	73	58	73	70	70	70	55	73	75
N1P Planned Development at Yau Mei Site	Diamo	4 NeDa	•,		_		••		••		_	_	•,	••										
AT A SHOP AT YOU ME! Site																								
N2P         at Kam Pok Road Site         56         54         54         56         64         63         63         64         63         63         64         63         63         64 </td <td></td> <td>at Yau Mei Site</td> <td></td> <td></td> <td></td> <td></td> <td>_</td> <td></td> <td></td> <td></td> <td></td> <td>57</td> <td></td> <td>75</td>		at Yau Mei Site					_					57												75
NAP         Planned Development at R(D) Site         66         64         64         61         61         60         62         64         61         61         60         52         51         53         55         52         52         52         55         65         65         65         62         62         62         62         65         75           NSP         Planned Development at R(D) Site         63         61         61         64         61         60         52         51         53         55         52         52         55         65         58         65         62         62         62         55         65         75		at Kam Pok Road Site										67												75
NSP Planned Development at R(D) Site 63 61 61 64 64 67 64 61 60 52 51 53 55 52 52 55 65 58 65 62 62 62 55 65 75		at Kam Pok Road Site										67												75
at R(D) Site 05 01 01 04 01 00 32 51 53 55 52 52 55 65 65 65 65 65 65 65 65		at R(D) Site					_	$\vdash$				64												75
		at R(D) Site										55						65	62	62	62	55	65	/5

Extracted from Table 4-19, "Environmental Impact Assessment Proposed Residential cum Passive Recreational Development within "Recreation" ("REC") Zone and "Residential (Group C)" Zone at Various Lots in DD104, Yuen Long, N.T." (EIA-220/2014).

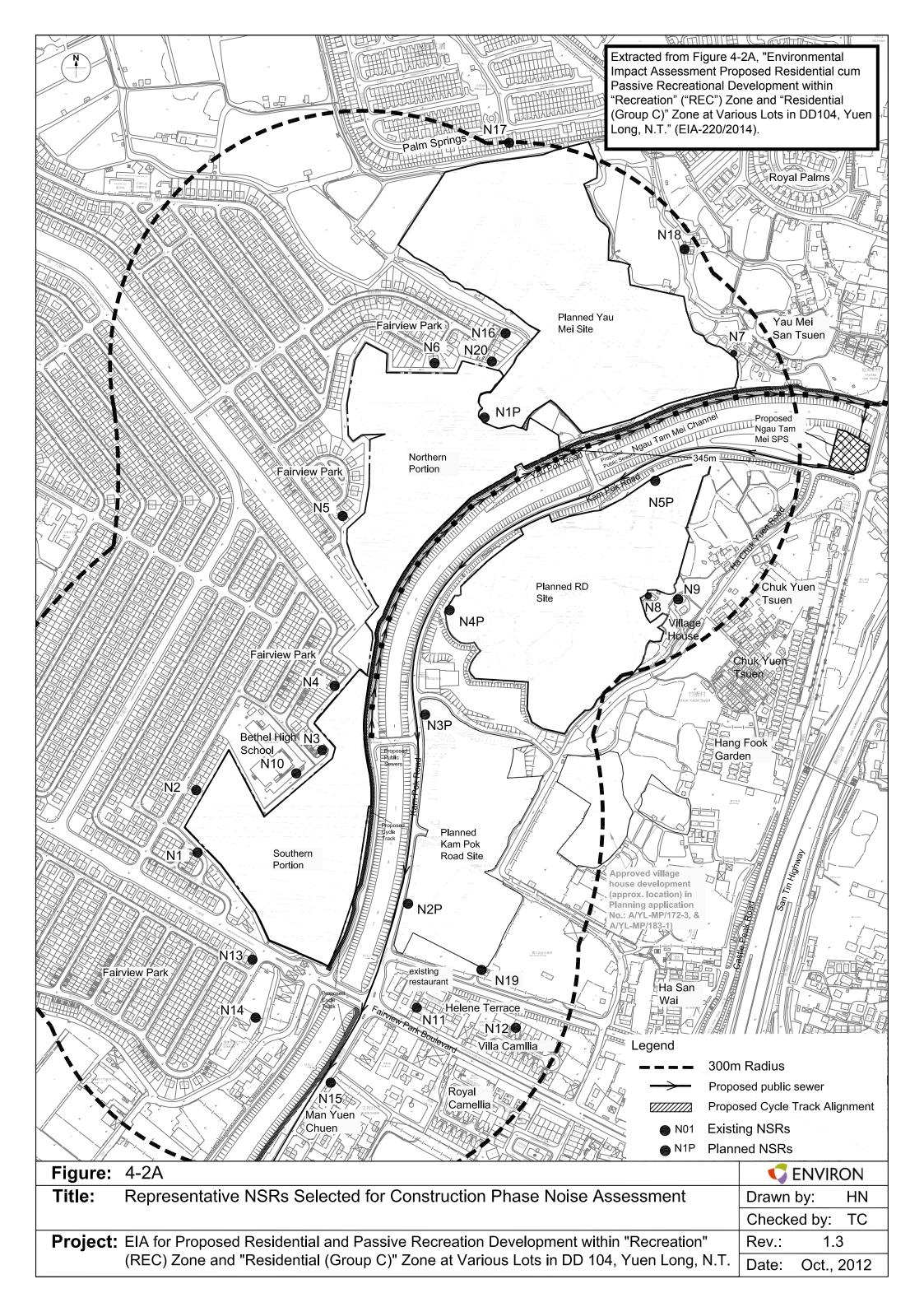
Note: Please refer to Appendix 4-4 and Appendix 4-4A for the sample calculation and Figure 4-2A for the NSR locations.

Calculated construction noise levels of construction activities that will be constructed concurrently with the planned "Yau Mei Site"

S ENVIRON

<sup>\*</sup> Please refer to **Appendix 1-1** for the construction programme and the duration of concurrent construction activities.

<sup>#</sup> With regard to the above, the mitigated noise level for the NSRs are based on those presented in **Appendix 4-4A** with the adoption of QPMEs and movable noise barriers. While, the mitigated noise levels for NSR N10 and N3 are based on those presented in **Appendix 4-4A** with the adoption of QPMEs, movable noise barriers and temp. fixed noise barrier. For NSR N4, the proposed temp. fixed noise barrier will also provide noise shielding to the Southern Portion as shown in the noise calculation in **Appendix 4-4A**.



Annex C

Calculated Mitigated Construction Noise Due to this Project (Directly Extracted from Appendices 4-3B and 4-3C of this EIA report)

Appendix 4-3C-1 Summary Table of Calculated Construction Noise Level at NSRs (Mitigated Scenario with QPMEs, Movable Noise Barriers and Temporary Fixed Noise Barriers)

Directly Extracted from Appendix 4-3C of this EIA report for Yau Mei San Tsuen Project
- Calculated noise level with QPMEs, Movable Noise Barriers and Temporary Fixed
Noise Barriers)

							Ca	lculated	l Constru	uction N	Noise Le	vel from	Each Co	onstruct	tion Acti	vity, dB(	A)											C	Cumulativ	re Construc	tion Nois	e Due to C	Concurre	nt Works							
NSR Labe	Descriptions	Pha	ise A			Phase B	3				Phase C	:				Phase D			P	hase B	, C and I	D							Т	T							T				
																																								Highest Noise	
		Α	В	С	D	Е	F	G	н	ı	J	к	L	М	N	0	Р	Q	R	s	т	U	٧	B+V	A+V	C+V	D+E+V	D+F+V	H+V	I+J+M+V		I+K+N+P +V		G+V+R	V+R	L+V+R	Q+V+F	S+T	S+U	Level, dB(A)	Noise Criteria, dB(A)
		(A) Reprofiling of pond and planting work	(B) Vegetation Clearance	(C) General site clearance	(D) Retaining wall construciton	(E) Installation of Vertical Drain	(F) Placement of Fill and Sucharge	(G) Removal of surcharge	(H) General Site clearance	(I) Retaining Wall construction	(J) Installation of Vertical Drain	(K) Placement of Filling and surcharge	(L) Removal of surcharge	(M) General site clearance	(N) Retaining wall construction	(O) Installation of vertical drain	(P) Placement of filling and surcharge	(Q) Removal of surcharge	(R) Foundation	(S) Superstructure	(T) Construction of Underground	(U) Roadworks Construction	(V) Dump Trucks Travelling on Haul Road																		
Existin	ng NSRs																																								
N2a	Fairview Park	59	59	58	55	54	55	54	66	63	62	63	62	64	61	60	61	60	63	61	58	58	57	61	61	60	60	60	67	68	68	69	65	64	64	66	65	62	62	69	75
N3	Fairview Park	55	55	61	58	57	58	57	71	68	67	68	67	70	67	66	67	66	68	66	63	63	58	60	60	63	63	63	72	74	74	74	70	69	69	71	71	68	68	74	75
N4	Fairview Park	54	54	58	55	54	55	54	62	59	58	59	58	65	62	61	62	61	63	61	58	58	55	57	57	59	59	59	63	67	67	67	65	64	64	65	66	63	63	67	75
N4a	Fairview Park	54	54	58	55	54	55	54	63	60	59	60	59	66	63	62	63	62	64	62	59	59	56	58	58	60	60	60	64	68	68	68	66	65	65	66	66	64	64	68	75
N4c	Fairview Park	53	53	60	57	56	57	56	66	63	62	63	62	73	70	69	70	69	69	67	64	64	56	58	58	62	62	62	67	74	74	74	73	70	70	70	72	69	69	74	75
N5	Temporary house at Yau Mei San Tsuen	72	72	68	65	64	65	64	60	57	56	57	56	60	57	56	57	56	67	65	62	62	58	72	72	68	68	68	62	64	64	64	62	69	67	68	68	66	66	72	75
N7	Temporary house at Yau Mei San Tsuen	58	58	63	60	59	60	59	61	58	57	58	57	58	55	54	55	54	61	59	56	56	56	60	60	64	63	64	62	63	63	63	60	64	62	63	63	61	61	64	75
N8	Palm Springs	53	53	59	56	55	56	55	59	56	55	56	55	55	52	51	52	51	58	56	53	53	54	56	56	60	60	60	60	61	61	61	58	61	59	61	60	58	58	61	75
N_ch	Christian Ministry Institute	52	52	58	55	54	55	54	55	52	51	52	51	54	51	50	51	50	57	55	52	52	54	56	56	59	59	59	57	59	59	59	57	60	59	60	59	57	57	60	70 (65 during examination)
N11	Temporary house at Yau Mei San Tsuen	71	71	69	66	65	66	65	64	61	60	61	60	61	58	57	58	57	66	64	61	61	59	72	72	70	69	70	65	66	66	67	63	69	67	67	67	66	66	72	75
N12	Village house at Chuk Yuen Tsuen	47	47	57	54	53	54	53	54	51	50	51	50	57	54	53	54	53	57	55	52	52	54	54	54	58	58	58	57	60	60	60	59	59	58	59	60	57	57	60	75
N13	Village house at Chuk Yuen Tsuen	47	47	57	54	53	54	53	54	51	50	51	50	57	54	53	54	53	56	54	51	51	53	54	54	58	58	58	56	60	59	60	59	59	58	59	59	56	56	60	75
N14	Village house at Yau Mei San Tsuen	53	53	59	56	55	56	55	55	52	51	52	51	56	53	52	53	52	58	56	53	53	54	57	57	60	60	60	58	59	59	60	58	61	60	60	60	58	58	61	75
Planne	ed NSRs																																		<u> </u>					<u> </u>	
N1P	Planned Development in RD Site	51	51	62	59	58	59	58	58	55	54	55	54	64	61	60	61	60	63	61	58	58	57	58	58	63	63	63	60	65	65	65	65	65	64	64	65	62	62	65	75
N2P	Planned Development in RD Site	54	54	64	61	60	61	60	58	55	54	55	54	63	60	59	60	59	62	60	57	57	56	58	58	65	64	65	60	65	65	65	64	65	63	63	64	61	61	65	75
N3P	Planned Development in REC Site	50	50	59	56	55	56	55	61	58	57	58	57	72	69	68	69	68	70	68	65	65	56	57	57	61	60	61	62	72	72	72	72	70	70	70	72	70	70	72	75
V1P	Village Zone development	55	55	63	60	59	60	59	57	54	53	54	53	61	58	57	58	57	60	58	55	55	56	58	58	63	63	63	59	63	63	63	62	63	61	62	63	60	60	63	75

#### Remark:

Please refer to Figure 4-2A for the geographical location of NSRs.

Please refer to Appendix 1-1 for the construction duration of each Work Group, and Appendix 4-3C for the construction plant inventory and sample calculations.

Bold numbers indicate exceedance of the relevant noise criteria for construction activities.

Calculated construction noise levels of construction activities that will be constructed concurrently with the planned "REC Site" project

Appendix 4-3B-1 Summary Table of Calculated Construction Noise Level at NSRs (Mitigated Scenario with QPMEs and Movable Noise Barriers)

Directly Extracted from Appendix 4-3B of this EIA report for Yau Mei San Tsuen Project
- Calculated noise level with QPMEs and Movable Noise Barriers only (for those NSRs which are not protected by the proposed temporary noise barriers of this Project)

																			_																						
NSR							Cal	lculated	Constru	uction N	oise Lev	el from	Each Co	nstruct	ion Acti	ivity, dB(	A)											C	Cumulativ	e Constru	ction Nois	e Due to	Concurre	ent Work	S						
Label	Descriptions	Pha	se A			Phase B					Phase C					Phase D			Р	hase B,	C and D	,																		Highest Noise	
		Α	В	С	D	E	F	G	н	ı	J	К	L	М	N	0	Р	Q	R	s	Т	U	v	B+V	A+V	C+V	D+E+V	D+F+V	H+V	I+J+M+V		I+K+N+ P+V	N+P+V	G+V+R	R V+R	L+V+F	Q+V+R	S+T	S+U	Level, dB(A)	Noise Criteria, dB(A)
		p			ıciton	Drain			0	tion	Drain	pı			ction	drain	70					E C	g on																		
		ond an	ırance	arance	constru	ertical	ll and	charge	arance	onstruc	ertical I	lling ar	tharge	arance	onstru	ertical	ling an	charge				ıstructi	ravellin																		
		ig of po	on Clea	site cle	g wall o	on of V	nt of Fi	of sur	Site cle	Wall o	n of Ve	nt of Fi	of surc	site cle	y wall c	on of w	nt of fil	of sur	no	ıcture	tion of	ks Cor	ucks Ti																		
		profilir g work	getatic	eneral	etainin	stallatic	acemei	emoval	eneral	aining	tallatio	aceme rge	moval	eneral	taining	stallatio	aceme	emoval	undati	perstru	nstruc	adwor	imp Tr oad																		
		(A) Re plantin	(B) Ve	(C)	(D) R	(E) Ins	(F) Pla	(G) Re	(H) Ge	(I) Ret	(J) Ins	(K) Pla	(L) Re	(M) G	(N) Re	iu (0)	(P) Pla	(Q) Re	(R) Fc	(S) Su	(T) Co Underg	(U) Rc	(V) Du Haul R																		
Existin	g NSRs																																							<u> </u>	
N1	Fairview Park	59	59	56	57	51	57	56	64	64	58	64	63	61	61	55	61	60	63	60	57	58	59	62	62	61	62	63	65	67	69	69	65	65	65	67	66	62	63	69	75
N1b	Fairview Park	60	60	57	58	52	58	57	66	66	60	66	65	63	63	57	63	62	65	62	59	60	60	63	63	62	63	64	67	69	70	71	67	67	66	68	68	64	64	71	75
N1c	Fairview Park	60	60	58	59	53	59	58	67	67	61	67	66	64	64	58	64	63	66	63	60	61	61	64	64	63	63	64	68	70	71	72	68	68	67	69	69	65	65	72	75
N2a	Fairview Park	59	59	59	60	54	60	59	68	68	62	68	67	66	66	60	66	65	68	65	62	63	62	63	63	63	64	65	69	71	73	74	70	69	69	71	70	66	67	74	75
N3	Fairview Park	55	55	62	63	57	63	62	73	73	67	73	72	72	72	66	72	71	73	70	67	68	63	64	64	66	67	68	74	77	78	79	75	74	74	76	76	72	73	79	75
N4	Fairview Park	54	54	59	60	54	60	59	64	64	58	64	63	67	67	61	67	66	68	65	62	63	60	61	61	62	63	64	66	70	71	72	70	69	69	70	71	67	67	72	75
N4a	Fairview Park	54	54	59	60	54	60	59	65	65	59	65	64	68	68	62	68	67	69	66	63	64	61	61	61	63	64	65	67	71	72	73	71	70	70	71	71	68	68	73	75
N4c	Fairview Park	53	53	61	62	56	62	61	68	68	62	68	67	75	75	69	75	74	74	71	68	69	61	62	62	64	65	67	69	76	77	79	78	75	75	75	77	73	73	79	75
N5	Temporary house at Yau Mei San Tsuen	72	72	69	70	64	70	69	62	62	56	62	61	62	62	56	62	61	72	69	66	67	63	72	72	70	71	73	65	67	68	69	67	74	72	73	73	70	71	74	75
N6	Palm Springs	60	60	57	58	52	58	57	62	62	56	62	61	58	58	52	58	57	64	61	58	59	59	63	63	61	62	63	64	65	67	67	63	66	65	67	66	63	63	67	75
N7	Temporary house at Yau Mei San Tsuen	58	58	64	65	59	65	64	63	63	57	63	62	60	60	54	60	59	66	63	60	61	61	63	63	66	67	69	65	66	68	68	65	69	67	68	68	65	65	69	75
N9	Fairview Park	45	45	54	55	49	55	54	56	56	50	56	55	59	59	53	59	58	61	58	55	56	57	57	57	58	59	60	59	62	63	64	63	63	63	63	64	60	60	64	75
N8	Palm Springs	53	53	60	61	55	61	60	61	61	55	61	60	57	57	51	57	56	63	60	57	58	59	60	60	63	64	65	63	64	66	66	63	66	64	66	65	62	62	66	75
N10	Palm Springs	60	60	55	56	50	56	55	62	62	56	62	61	58	58	52	58	57	61	58	55	56	59	63	63	60	61	62	63	65	66	67	63	63	63	65	64	59	60	67	75
N_sch	Hong Chi Morninglight School Yuen long	45	45	50	51	45	51	50	53	53	47	53	52	52	52	46	52	51	55	52	49	50	55	55	55	56	57	57	57	59	60	60	58	59	58	59	59	54	54	60	70 (65 during examination)
N_ch	Christian Ministry Institute	52	52	59	60	54	60	59	57	57	51	57	56	56	56	50	56	55	62	59	56	57	59	60	60	62	63	64	61	62	63	64	62	65	64	65	64	61	62	65	70 (65 during examination)
N11	Temporary house at Yau Mei San Tsuen	71	71	70	71	65	71	70	66	66	60	66	65	63	63	57	63	62	71	68	65	66	64	72	72	71	73	75	68	70	71	72	68	74	72	72	72	70	70	75	75
N12	Village house at Chuk Yuen Tsuen	47	47	58	59	53	59	58	56	56	50	56	55	59	59	53	59	58	62	59	56	57	59	59	59	61	62	63	60	63	64	65	64	64	63	64	65	61	61	65	75
N13	Village house at Chuk Yuen Tsuen	47	47	58	59	53	59	58	56	56	50	56	55	59	59	53	59	58	61	58	55	56	58	59	59	61	62	63	60	63	64	65	64	64	63	64	64	60	61	65	75
N14	Village house at Yau Mei San Tsuen	53	53	60	61	55	61	60	57	57	51	57	56	58	58	52	58	57	63	60	57	58	59	60	60	62	64	65	61	63	64	65	63	66	65	65	65	62	62	66	75
Planne	d NSRs																																	<u> </u>	<u> </u>			<u> </u>		<b></b>	
N1P	Planned Development in RD Site	51	51	63	64	58	64	63	60	60	54	60	59	66	66	60	66	65	68	65	62	63	62	62	62	65	67	68	64	68	69	70	70	70	69	69	70	66	67	70	75
N2P	Planned Development in RD Site	54	54	65	66	60	66	65	60	60	54	60	59	65	65	59	65	64	67	64	61	62	61	62	62	66	68	70	64	68	69	70	69	70	68	68	69	65	66	70	75
N3P	Planned Development in REC Site	50	50	60	61	55	61	60	63	63	57	63	62	74	74	68	74	73	75	72	69	70	61	61	61	63	64	66	65	75	76	77	77	75	75	75	77	74	74	77	75
V1P	Village Zone development	55	55	64	65	59	65	64	59	59	53	59	58	63	63	57	63	62	65	62	59	60	61	62	62	65	67	68	63	66	67	68	67	68	66	67	68	64	64	68	75

#### Remark:

Please refer to Figure 4-2A for the geographical location of NSRs.

Please refer to Appendix 1-1 for the duration of each Work Group, and Appendix 4-3B for the construction plant inventory and sample calculations.

 $\label{eq:bold_problem} \textbf{Bold numbers indicate exceedance of the relevant noise criteria for construction activities.}$ 

Calculated construction noise levels of construction activities that will be constructed concurrently with the planned "REC Site" project

## Annex D

Calculation of Cumulative Construction Noise Level with Due Consideration of the Planned "REC Site" Project (EIA-220/2014)

## <u>Summary Table of Calculated Cumulative Construction Noise Levels - Combination 1</u>

Concurrent Construction Activities:

This Project:

Planned "REC Site" Project: Northern: Nil Southern: D

			Calculated No	ise Level due t Projects *	to Approved EIA	Calculated Noise L Adjacent Approved I		Cumulative	Noise Level - So	enario A	Cumulative N	Noise Level - Sce	enario B	
NSR La (this Pro		Corr. NSR ID in "REC Site" EIA report	Construction of Cycle Track, dB(A)	Construction of Public Sewers, dB(A)	Construction of Ngau Tam Mei Sewage Pumping Station, dB(A)	Construction of RD site, dB(A)		Cumulative Noise Level Due to Approved EIA Projects only, dB(A)	Highest Mitigated Noise Level Due to Current Project, dB(A) #	Cumulative Noise Level, dB(A)	Cumulative Noise Level Due to Approved EIA Projects and Planned Development Projects, dB(A)	Highest Mitigated Noise Level Due to Current Project, dB(A) #	Cumulative Noise Level, dB(A)	Noise Criteria
			А	В	С	F	G	= A+B+C	D	=A+B+C+D	=A+B+C+F+G	D	=A+B+C+F+ G+D	
	N3	N16	58	56	48	62	55	60	71	71	65	71	72	75
	N4	N6	57	56	47	62	56	60	66	67	65	66	69	75
	N4c	N20	59	58	48	63	55	62	72	72	66	72	73	75
	N5	N7	69	67	57	65	52	71	68	73	72	68	73	75
	N6	N17	50	49	46	58	52	53	66	66	60	66	67	75
	N7	N18	56	55	51	61	52	59	63	64	64	63	67	75
	N9	N5	62	60	45	64	61	64	64	67	68	64	69	75
Existing NSRs	N8	@	54	53	50	60	@	57	60	62	62	60	64	75
	N_sch	@	47	46	42	56	@	50	59	60	57	59	61	70 (65 during examination)
	N_ch	@	63	61	58	62	@	66	59	67	67	59	68	70 (65 during examination)
	N12	N8	55	58	52	75	57	60	60	63	75	60	75	75
	N13	N9	55	57	53	74	56	60	59	63	74	59	74	75
	N14	@	67	66	61	62	@	70	60	70	71	60	71	75
DI	N1P	N5P	64	74	53	-	55	74	65	75	74	-	-	75
Planned Developm	N2P	N5P	64	74	56	=	55	74	64	74	75	-	-	75
ent Sites	N3P		64	62	48	-	-	66	72	73	66	-	-	75
2 2.100	V1P	N5P	64	74	58	74	55	75	63	75	77	63	77	75

Remark: # Calculated construction noise level of this Project due to concerned construction activities "Q+V+R" as shown in Annex C.

<sup>##</sup> Calculated construction noise level of the planned "REC Site" Project due to concerned construction activities "Northern: Nii; and Southern: D" as shown in Annex B.

<sup>@</sup> Denotes the concerned NSR is outside 300m study radius of the planned "REC Site" Project. Thus, cumulative construction noise was not considered.

## <u>Summary Table of Calculated Cumulative Construction Noise Levels - Combination 2</u>

Concurrent Construction Activities:

This Project: S+T

Planned "REC Site" Project: Northern: D Southern: D

			Calculated No	oise Level due t Projects *	o Approved EIA	Calculated Noise L Adjacent Approved I		Cumulative	Noise Level - So	cenario A	Cumulative N	loise Level - Sce	enario B	
NSR La (this Pro		Corr. NSR ID in "REC Site" EIA report	Construction of Cycle Track, dB(A)	Construction of Public Sewers, dB(A)	Construction of Ngau Tam Mei Sewage Pumping Station, dB(A)	Construction of RD site, dB(A)		Cumulative Noise Level Due to Approved EIA Projects only, dB(A)	Highest Mitigated Noise Level Due to Current Project, dB(A) #	Cumulative Noise Level, dB(A)	Cumulative Noise Level Due to Approved EIA Projects and Planned Development Projects, dB(A)	Highest Mitigated Noise Level Due to Current Project, dB(A) #	Cumulative Noise Level, dB(A)	Noise Criteria
			Α	В	С	F	G	= A+B+C	D	=A+B+C+D	=A+B+C+F+G	D	=A+B+C+F+ G+D	
	N3	N16	58	56	48	62	69	60	68	69	70	68	72	75
-	N4	N6	57	56	47	62	73	60	63	65	74	63	74	75
	N4c	N20	59	58	48	63	73	62	69	70	74	69	75	75
	N5	N7	69	67	57	65	60	71	66	72	72	66	73	75
	N6	N17	50	49	46	58	59	53	63	63	62	63	66	75
	N7	N18	56	55	51	61	59	59	61	63	65	61	66	75
Cuintin n	N9	N5	62	60	45	64	73	64	60	65	74	60	74	75
Existing NSRs	N8	@	54	53	50	60	@	57	58	61	62	58	63	75
	N_sch	@	47	46	42	56	@	50	54	55	57	54	59	70 (65 during examination)
	N_ch	@	63	61	58	62	@	66	57	67	67	57	67	70 (65 during examination)
	N12	N8	55	58	52	75	62	60	57	62	75	57	75	75
-	N13	N9	55	57	53	74	61	60	56	61	74	56	74	75
-	N14	@	67	66	61	62	@	70	58	70	71	58	71	75
Diamand	N1P	N5P	64	74	53	-	65	74	62	74	75	-	-	75
Planned Developm	N2P	N5P	64	74	56	-	65	74	61	74	75	-	-	75
ent Sites	N3P		64	62	48	=	-	66	70	71	66	-	-	75
	V1P	N5P	64	74	58	74	65	75	60	75	78	60	78	75

Remark: # Calculated construction noise level of this Project due to concerned construction activities "S+T" as shown in Annex C.

<sup>##</sup> Calculated construction noise level of the planned "REC Site" Project due to concerned construction activities "Northern: D; Southern: D" as shown in Annex B.

<sup>@</sup> Denotes the concerned NSR is outside 300m study radius of the planned "REC Site" Project. Thus, cumulative construction noise was not considered.

## <u>Summary Table of Calculated Cumulative Construction Noise Levels - Combination 3</u>

Concurrent Construction Activities:

This Project: S+U

Northern: Nil

Planned "REC Site" Project: Southern:

A+G+F

			Calculated No	oise Level due t Projects *	o Approved EIA	Calculated Noise L Adjacent Approved I		Cumulative	Noise Level - So	enario A	Cumulative N	Noise Level - Sce	nario B	
NSR La (this Pro		Corr. NSR ID in "REC Site" EIA report	Construction of Cycle Track, dB(A)	Construction of Public Sewers, dB(A)	Construction of Ngau Tam Mei Sewage Pumping Station, dB(A)	Construction of RD site, dB(A)		Cumulative Noise Level Due to Approved EIA Projects only, dB(A)	Highest Mitigated Noise Level Due to Current Project, dB(A) #	Cumulative Noise Level, dB(A)	Cumulative Noise Level Due to Approved EIA Projects and Planned Development Projects, dB(A)	Highest Mitigated Noise Level Due to Current Project, dB(A) #	Cumulative Noise Level, dB(A)	Noise Criteria
			Α	В	С	F	G	= A+B+C	D	=A+B+C+D	=A+B+C+F+G	D	=A+B+C+F+ G+D	
	N3	N16	58	56	48	62	58	60	68	69	65	68	70	75
	N4	N6	57	56	47	62	59	60	63	65	65	63	67	75
	N4c	N20	59	58	48	63	58	62	69	70	66	69	71	75
	N5	N7	69	67	57	65	66	71	66	72	73	66	74	75
	N6	N17	50	49	46	58	55	53	63	63	61	63	65	75
	N7	N18	56	55	51	61	56	59	61	63	64	61	66	75
Existing	N9	N5	62	60	45	64	63	64	60	65	69	60	70	75
NSRs	N8	@	54	53	50	60	@	57	58	61	62	58	63	75
	N_sch	@	47	46	42	56	@	50	54	55	57	54	59	70 (65 during examination)
	N_ch	@	63	61	58	62	@	66	57	67	67	57	67	70 (65 during examination)
	N12	N8	55	58	52	75	59	60	57	62	75	57	75	75
	N13	N9	55	57	53	74	59	60	56	61	74	56	74	75
	N14	@	67	66	61	62	@	70	58	70	71	58	71	75
Planned	N1P	N5P	64	74	53	-	58	74	62	74	75	-	-	75
Developm	N2P	N5P	64	74	56	-	58	74	61	74	75	-	-	75
ent Sites	N3P		64	62	48	-	-	66	70	71	66	-	-	75
	V1P	N5P	64	74	58	74	58	75	60	75	77	60	77	75

Remark: # Calculated construction noise level of this Project due to concerned construction activities "S+U" as shown in Annex C.

<sup>##</sup> Calculated construction noise level of the planned "REC Site" Project due to concerned construction activities "Northern: Nil; Southern: A+G+F" as shown in Annex B.

<sup>@</sup> Denotes the concerned NSR is outside 300m study radius of the planned "REC Site" Project. Thus, cumulative construction noise was not considered.

## Summary Table of Calculated Cumulative Construction Noise Levels - Combination 4

Concurrent Construction Activities:

This Project: U

Northern: Planned "REC Site" Project: A+G

Λ. O

			Calculated No	ise Level due t Projects *	to Approved EIA	Calculated Noise L Adjacent Approved I		Cumulative	Noise Level - Sc	enario A	Cumulative N	Noise Level - Sce	nario B	
NSR La (this Pro		Corr. NSR ID in "REC Site" EIA report	Construction of Cycle Track, dB(A)	Construction of Public Sewers, dB(A)	Construction of Ngau Tam Mei Sewage Pumping Station, dB(A)	Construction of RD site, dB(A)		Cumulative Noise Level Due to Approved EIA Projects only, dB(A)	Highest Mitigated Noise Level Due to Current Project, dB(A) #	Cumulative Noise Level, dB(A)	Cumulative Noise Level Due to Approved EIA Projects and Planned Development Projects, dB(A)	Highest Mitigated Noise Level Due to Current Project, dB(A) #	Cumulative Noise Level, dB(A)	Noise Criteria
			Α	В	С	F	G	= A+B+C	D	=A+B+C+D	=A+B+C+F+G	D	=A+B+C+F+ G+D	
	N3	N16	58	56	48	62	69	60	63	65	70	63	71	75
	N4	N6	57	56	47	62	73	60	58	62	74	58	74	75
	N4c	N20	59	58	48	63	73	62	64	66	74	64	74	75
	N5	N7	69	67	57	65	70	71	62	72	74	62	74	75
	N6	N17	50	49	46	58	60	53	59	60	63	59	64	75
	N7	N18	56	55	51	61	60	59	56	61	65	56	66	75
	N9	N5	62	60	45	64	72	64	56	65	73	56	73	75
Existing NSRs	N8	@	54	53	50	60	@	57	53	58	62	53	63	75
	N_sch	@	47	46	42	56	@	50	50	53	57	50	58	70 (65 during examination)
	N_ch	@	63	61	58	62	@	66	52	66	67	52	67	70 (65 during examination)
	N12	N8	55	58	52	75	61	60	52	61	75	52	75	75
	N13	N9	55	57	53	74	61	60	51	61	74	51	74	75
	N14	@	67	66	61	62	@	70	53	70	71	53	71	75
Diamond	N1P	N5P	64	74	53	-	65	74	58	74	75	-	-	75
Planned	N2P	N5P	64	74	56	-	65	74	57	74	75	-	-	75
Developm ent Sites	N3P		64	62	48	-	-	66	65	69	66	-	-	75
Citt Oiles	V1P	N5P	64	74	58	74	65	75	55	75	78	55	78	75

Remark: # Calculated construction noise level of this Project due to concerned construction activities "U" as shown in Annex C.

<sup>##</sup> Calculated construction noise level of the planned "REC Site" Project due to concerned construction activities "Northern: A+G; Southern: Nil" as shown in Annex B.

<sup>@</sup> Denotes the concerned NSR is outside 300m study radius of the planned "REC Site" Project. Thus, cumulative construction noise was not considered.