Appendix 4-7A

Calculation of Noise Levels Due to Fixed Noise Sources at Nearby Existing Village Houses (Worst Case Scenario)

NSR	Noise Source ID	Industrial Activities	Sound Power Level (SWL), dB(A) #	No. of Equipmen t	Total SWL, dB(A)	Horizontal Distance from Source to Receiver (m)	Dist. Corr., dB(A)	Façade Corr. dB(A)	Un-mitigated Noise level, dB(A)	Noise Criteria (ANL) *	Comply with Noise Criteria or not
M1 (Ville		Operating pains at								60	Yes
Camilla)	S1-1	workshop	94	1	94	84	-47	3	50		
										60	Yes
M1 (Villa Camilla)	\$2.3	Loading and unloading	91	1	Q1	84	-47	3	47		
Oarnina)	02.0	using forkint	51		51		-11	0	-1		
										60	Yes
M1 (Villa											100
Camilla)	S2-1	Movement of Lorry	99	2	102	84	-47	3	58		
M1 (Villa		Lifting of container by a								60	Yes
Camilla)	S2-2	mobile crane	97	1	97	84	-47	3	53		
Total							Cumulat	tive Total [@] :	60	60	Yes

Appendix 4-7A-1 - Fixed Noise Sources Calculation Results at Nearest Village House to the Industrail Site (Day-Time)

N	ISR	Noise Source ID	Industrial Activities	Sound Power Level (SWL), dB(A) #	No. of Equipmen t	Total SWL, dB(A)	Horizontal Distance from Source to Receiver (m)	Dist. Corr., dB(A)	Façade Corr. dB(A)	Un-mitigated Noise level, dB(A)	Noise Criteria (ANL) *	Comply with Noise Criteria or not
N	12 (Ha San Vai)	S10-1	Loading and unloading using forklift	91	2	94	91	-47	3	50	60	Yes
N	12 (Ha San Vai)	S10-2	Movement of lorry	99	3	104	91	-47	3	60	60	Yes
т	otal							Cumula	tive Total [®] :	60	60	Yes

Note:

Only NSR locations that are within 300m radius from the identified industrial noise sources are included in the noise assessment as per Project Study Brief requirements.

Sound Power Level is based on site measurement during the operation of the concerned industrial plant.

The cumulative noise level at the receiver point. Calculation is based on general acoustic principle using the equation = 10 x log ((L1/10)+(L2/10)+(L3/10)...+(Ln/10)); where, L1, L2, L3, Ln are the respective noise level at the receiver due to individual noise source.

* For existing NSR, the operation of the industrial sites will need to meet the noise criteria (i.e. ANL) specified in the "Technical Memorandum for the Assessment of Noise from Places Other Than Domestic Premises, Public Places or Construction Sites' under the Noise Control Ordinance (NCO) (hereinafter referred to as "NCO-TM"). The ANL for village house is 604B(A) and 50dB(A) for day-time and night-time, respectively.

** Based on the existing NSR nesrest to the industrial site as shown in Figure App 4-7A-1.

Appendix 4-7A-2 - Fixed Noise Sources Calculation Results at Nearest Village House to the Industrail Site (Night-Time)

NSR	Noise Source ID	Industrial Activities	Sound Power Level (SWL), dB(A) #	No. of Equipmen t	Total SWL, dB(A)	Horizontal Distance from Source to Receiver (m)	Dist. Corr., dB(A)	Façade Corr. dB(A)	Un-mitigated Noise level, dB(A)	Noise Criteria (ANL) *	Comply with Noise Criteria or not
M1 (Villa Camilla)	S1-1	Operating noise at workshop	94	1	94	84	-47	3	50	50	Yes
Total							Cumulat	ive Total [@] :	50	50	Yes

NSR	N	loise Source ID	Industrial Activities	Sound Power Level (SWL), dB(A) #	No. of Equipmen t	Total SWL, dB(A)	Horizontal Distance from Source to Receiver (m)	Dist. Corr., dB(A)	Façade Corr. dB(A)	Un-mitigated Noise level, dB(A)	Noise Criteria (ANL) *	Comply with Noise Criteria or not
M2 (F Wai)	Ha San S	\$10-1	Loading and unloading using forklift	91	2	94	91	-47	3	50	50	Yes
Total								Cumulat	ive Total [®] :	50	50	Yes

Note:

Only NSR locations that are within 300m radius from the identified industrial noise sources are included in the noise assessment as per Project Study Brief requirements.

Sound Power Level is based on site measurement during the operation of the concerned industrial plant.

 The cumulative noise level at the receiver point. Calculation is based on general acoustic principle using the equation = 10 x log ((L1/10)+(L2/10)+(L3/10)...+(Ln/10)); where, L1, L2, L3, Ln are the respective noise level at the receiver due to individual noise source.

* For existing NSR, the operation of the industrial sites will need to meet the noise criteria (i.e. ANL) specified in the "Technical Memorandum for the Assessment of Noise from Places Other Than Domestic Premises, Public Places or Construction Sites" under the Noise Control Ordinance (NCO) (hereinafter referred to as "NCO-TM"). The ANL for village house is 6048(A) and 5048(A) for day-time and night-time, respectively.

** Based on the existing NSR nesrest to the industrial site as shown in Figure App 4-7A-1.



Helene	N. 16.
• S1-1 Notional Noise Village House	Source Location for Existing
Milla Villa Cambine	ential House to the Industrial Site
Existing building	g structure that acts as a barrier and Industrial Activities
Proposed nois planning appli	se barrier in approved ication No. A/YL-MP/170 e house in adjacent to the industrial
Figure: App 4-7A-1	
Title: Location of Nearest Existing NSR to the Industrial Sites, and Separation	Drawn by: HN
Distances to the Notional Noise Source Locations.	Checked by: TC
Project: EIA for Proposed Residential and Passive Recreation Development within "Recreation"	Rev.: 1.4
(REC) Zone and "Residential (Group C)" Zone at Various Lots in DD 104, Yuen Long, N.T.	Date: Oct., 2013