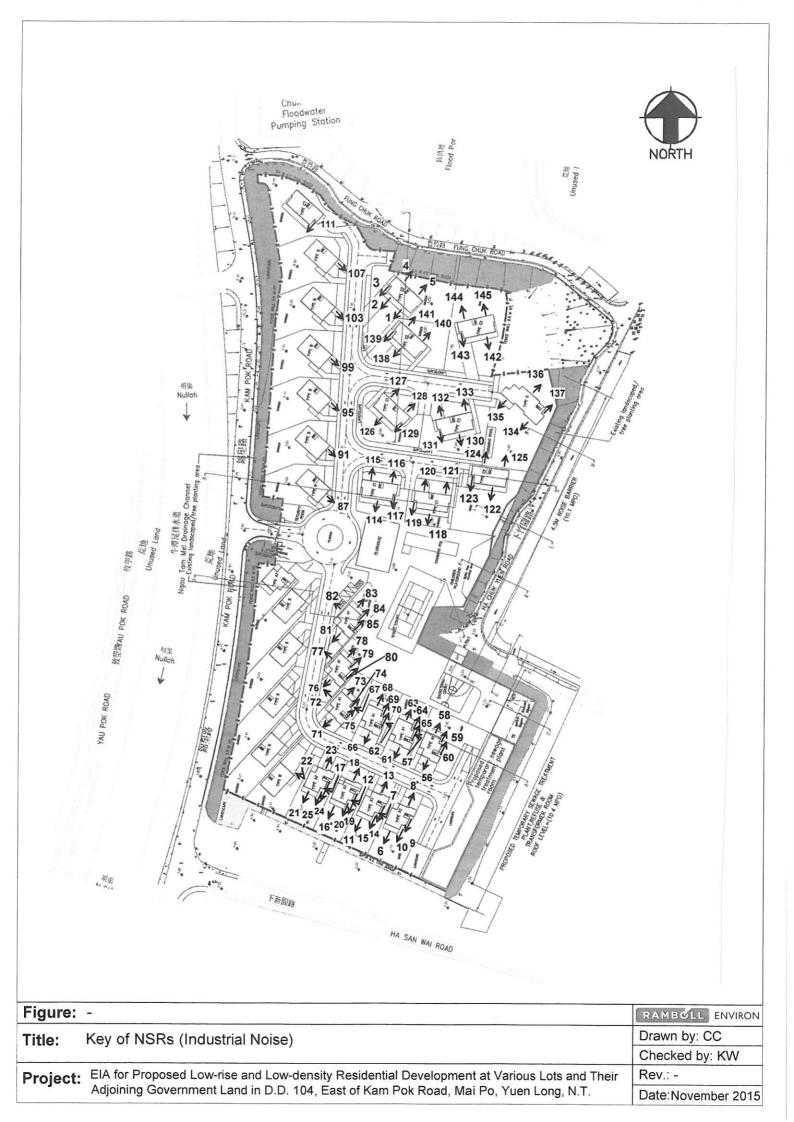
Appendix 4-6

Industrial Noise Calculations (Worst Case Scenario, Daytime)





Job Title.: Job No.: Date: Scenario:	Kam Pok Road 22080 30/11/2015 Noise Barrier (N	Kam Pok Road 22080 30/11/2015 Noise Barrier (North: 4.5m, South: Sewage Treatment Plant only)	South: Sewa	ige Treatmei	t Plant only				
Floor	NSR 1	NSR 2	NSR 3	NSR 4	NSR 5	NSR 6	NSR 7	NSR 8	NSR 9
G/F (House Type C with ground level 7.2mPD)	40.3	40.2	31.5	33.9	39.8				
G/F (House Type C with ground level 6.7mPD)						40.9	40.6	48.1	48.0
1/F (House Type C with ground level 7.2mPD)	42.5	42.4	36.2	38.8	41.5				
1/F (House Type C with ground level 6.7mPD)						45.0	44.3	51.1	51.4
Max:	42.5	42.4	36.2	38.8	41.5	45.0	44.3	51.1	51,4
(ANL - 5) Criterion	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
Compliance	YES	YES	YES	ΥES	YES	YES	YES	YES	YES

Job Title.: Job No.: Date: Scenario:	Kam Pok Road 22080 30/11/2015 Noise Barrier (N	ok Road 2015 Barrier (North: 4.5m, South: Sewage Treatment Plant only)	South: Sew	age Treatmer	it Plant only	<u> </u>			
Floor	NSR 10	NSR 11	NSR 12		NSR 14	NSR 13 NSR 14 NSR 15	NSR 16	NSR 17	NSR 18
G/F (House Type A with ground level 5.45mPD)	47.7	39.8	39.0	47.3	44.3	41.7	38.8	37.7	45.9
1/F (House Type A with ground level 5.45mPD)	51.0	44.3	42.9	49.7	47.8	46.1	43.3	41.7	47.9
Max:	c 51.0	44.3	42.9	49.7	47.8	46.1	43.3	41.7	47.9
(ANL - 5) Criterion	n 55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
Compliance	e YES	YES	YES	YES	YES	ΥES	YES	YES	YES

Job Title.: Job No.: Date: Scenario:	Kam Pok Road 22080 30/11/2015 Noise Barrier (North: 4.5m, South: Sewage Treatment Plant only)	ad (North: 4.5m,	South: Sewa	ige Treatmer	tt Plant only		
Floor	NSR 19	NSR 20	NSR 21	NSR 22	NSR 22 NSR 23	NSR 24	NSR 25
G/F (House Type A with ground level 5.45mPD)	43.7	40.5	39.3	36.8	45.1	41.4	39.5
1/F (House Type A with ground level 5.45mPD)	46.7	45.0	43.5	41.1	47.0	44.8	44.2
Max:	46.7	45.0	43.5	41.1	47.0	44.8	44.2
(ANL - 5) Criterion	55.0	55.0	55.0	55.0	55.0	55.0	55.0
	YES	YES	YES	YES	YES	YES	YES

Job Title.: Job No.: Date: Scenario:	Kam Pok Road 22080 30/11/2015 Noise Barrier (N	Kam Pok Road 22080 30/11/2015 Noise Barrier (North: 4.5m, South: Sewage Treatment Plant only)	South: Sewa	ge Treatmer	ıt Plant only				
Floor	NSR 56	NSR 57	NSR 58	NSR 59	NSR 60	NSR 60 NSR 61	NSR 62	NSR 63	NSR 64
G/F (House Type A with ground level 5.45mPD)	47.5	41.6	48.0	48.3	48.6	45.2	39.5	45.8	44.9
1/F (House Type A with ground level 5.45mPD)	50.5	44.8	51.0	51.6	51.9	48.0	43.3	48.5	48.2
Max:	50.5	44.8	51.0	51.6	51.9	48.0	43.3	48.5	48.2
(ANL - 5) Criterion	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
Compliance	YES	YES	YES	YES	ΥES	YES	YES	YES	YES

Job Title.: Job No.: Date: Scenario:	Kam Pok Road 22080 30/11/2015 Noise Barrier (North: 4.5m, South: Sewage Treatment Plant only)	ad (North: 4.5m,	South: Sewa	ge Treatment	: Plant only)				
Floor	NSR 65	NSR 66	NSR 67	NSR 68	NSR 69	NSR 70	NSR 71	NSR 72	NSR 73
G/F (House Type A with ground level 5.45mPD)	40.2	40.6	37.7	36.4	45.3	45.5	45.3	42.8	35.8
1/F (House Type A with ground level 5.45mPD)	46.5	46.5	42.3	47.4	47.2	45.3	42.3	41.3	46.4
Max:	46.5	46.5	42.3	47.4	47.2	45.5	45.3	42.8	46.4
(ANI - 5) Griferion	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
Compliance	YES	YES	YES	YES	YES	YES	YES	YES	YES

Predicted Industrial Noise Levels in Daytime Period

Job Title.: Job No.: Date: Scenario:	Kam Pok Road 22080 30/11/2015 Noise Barrier (North: 4.5m, South: Sewage Treatment Plant only)	ad (North: 4.5m,	South: Sewa	ige Treatmer	nt Plant only				
Floor	NSR 74	NSR 75	NSR 76	NSR 77	NSR 78	NSR 79	NSR 80	NSR 81	NSR 82
G/F (House Type A with ground level 5.45mPD)	40.2	40.6	37.7	36.4	45.3	45.5	45.3	42.8	35.8
1/F (House Type A with ground level 5.45mPD)	44.7	44.9	42.5	40.9	47.1	47.4	47.1	44.7	40.3
Max:	: 44.7	44.9	42.5	40.9	47.1	47.4	47.1	44.7	40.3
(ANL - 5) Griterion	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
Compliance	e YES	YES	YES	ΥES	ΥES	YES	YES	YES	YES

Job Title.: Job No.: Date: Scenario:	Kam Pok Road 22080 30/11/2015 Noise Barrier (N	ad (North: 4.5m,	Kam Pok Road 22080 30/11/2015 Voise Barrier (North: 4.5m, South: Sewage Treatment Plant only)
Floor	NSR 83	NSR 83 NSR 84 NSR 85	NSR 85
G/F (House Type A with ground level 5.45mPD)	44.7	44.9	44.9
1/F (House Type A with ground level 5.45mPD)	46.9	47.1	47.1

47.1	55.0	YES
47.1	55.0	YES
46.9	55.0	YES
Max:	(ANL - 5) Criterion	Compliance

Job Title.: Job No.: Date: Scenario:	Kam Pok Road 22080 30/11/2015 Noise Barrier (North: 4.5m, South: Sewage Treatment Plant only)	ad (North: 4.5m,	South: Sewe	age Treatmer	nt Plant only	<u> </u>	
Fioor	NSR 87	NSR 91	NSR 95	NSR 99	NSR 103	NSR 103 NSR 107	NSR 111
G/F (House Type A with ground level 5.6mPD)	40.4	39.9					
G/F (House Type A with ground level 5.75mPD)			39.4	38.9			
G/F (House Type A with ground level 6mPD)					40.0		
G/F (House Type A with ground level 6.5mPD)						39.2	37.1
1/F (House Type A with ground level 5.6mPD)	43.2	42.7					
1/F (House Type A with ground level 5.75mPD)			42.2	41.7			
1/F (House Type A with ground level 6mPD)					41.6		
1/F (House Type A with ground level 6.5mPD)						41.5	39.7
Max:	43.2	42.7	42.2	41.7	41.6	41.5	39.7
(ANI - 5) Criterion	55.0	55.0	55.0	55.0	55.0	55.0	55.0
	YES	YES	YES	YES	ΥES	YES	YES

Predicted Industrial Noise Levels in Daytime Period

Kam Pok Road

Job Title.:

Job No.:	22080								
Date:	30/11/2015								
Scenario:	Noise Barrier	Noise Barrier (North: 4.5m, South: Sewage Treatment Plant only)	South: Sewa	ige Treatmer	it Plant only	•			
Floor	NSR 114	NSR 115	NSR 116	NSR 116 NSR 117	NSR 118	NSR 118 NSR 119 NSR 120 NSR 121	NSR 120	NSR 121	NSR 122
G/F (Houes Type C with ground level 5.6mPD)	43.0	35.1	35.0	43.9	44.5	35.1	35.8	35.9	43.6
1/F (Houes Type C with ground level 5.6mPD)	45.8	40.1	40.1	46.1	47.4	39.9	40.9	41.1	49.8
							1		
Max:	c: 45.8	40.1	40.1	46.1	47.4	39.9	40.9	41.1	49.8
(ANL - 5) Criterion	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
Compliance	e YES	YES	YES	YES	YES	YES	YES	ΥES	YES

Job Title.: Job No.: Date: Scenario:	Kam Pok Road 22080 30/11/2015 Noise Barrier (N	Kam Pok Road 22080 30/11/2015 Noise Barrier (North: 4.5m, South: Sewage Treatment Plant only)	South: Sewa	ge Treatmer	t Plant only	-			
Floor	NSR 123	NSR 123 NSR 124	NSR 125	NSR 125 NSR 126 NSR 127 NSR 128 NSR 129 NSR 130 NSR 131	NSR 127	NSR 128	NSR 129	NSR 130	NSR 131
G/F (House Type C with ground level 5.6mPD)	35.5	35.5	35.8	42.2	39.0	39.1	41.5	40.3	41.6
1/F (House Type C with ground level 5.6mPD)	40.6	40.6	41.0	44.4	41.8	42.2	44.2	44.1	45.2
Max:	40.6	40.6	41.0	44.4	41.8	42.2	44.2	44.1	45.2
(ANL - 5) Criterion	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
Compliance	YES	YES	YES	YES	YES	YES	YES	YES	YES

Job Title.: Job No.: Date: Scenario:	Kam Pok Road 22080 30/11/2015 Noise Barrier (North: 4.5m, South: Sewage Treatment Plant only)	ad (North: 4.5m,	South: Sewa	ge Treatmer	tt Plant only	-			
Floor	NSR 132	NSR 133	NSR 134	NSR 134 NSR 135 NSR 136 NSR 137 NSR 138 NSR 139	NSR 136	NSR 137	NSR 138	NSR 139	NSR 140
GIF (House Type C with ground level 5.6mPD)	34.0	34.1	42.2	43.2	35.4	40.1			
G/F (House Type D with ground level 6mPD)							41.9	32.2	35.3
1/F (House Type C with ground level 5.6mPD)	39.0	39.0	48.4	47.2	40.6	48.6			
1/F (House Type D with ground level 6mPD)							44.4	36.9	39.9
.xeW	39.0	39.0	48.4	47.2	40.6	48.6	44.4	36.9	39.9
		2122		!	2	2		•	
(ANL - 5) Criterion	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
Compliance	YES	YES	YES	YES	YES	YES	YES	YES	YES

Job Title.:	Kam Pok Road	ad			
Job No.:	22080				
Date:	30/11/2015				
Scenario:	Noise Barrier	Noise Barrier (North: 4.5m, South: Sewage Treatment Plant only)	South: Sewa	ige Treatmei	nt Plant only)
Floor	NSR 141		NSR 142 NSR 143 NSR 144 NSR 145	NSR 144	NSR 145
G/F (House Type D with ground level 6mPD)	40.5	41.7	38.1	32.5	32.6
1/F (House Type D with ground level 6mPD)	42.5	45.0	41.3	37.2	37.3
· vew	. A7 K	45 N	41 3	37.2	37.3
YBW		2.24	2	!	2
(AN) - 5) Griterion	55.0	55.0	55.0	55.0	55.0
Compliance	e YES	YES	YES	YES	YES

Calculation of Industrial Noise Levels (Daytime Period)

Kam Pok Road 22080 09/08/16 Job Title.: Job No.: Date:

NSR	NSR 81	Xr:	Xr : 823421										
	G/F	Yr:	Yr : 837223										
		Hr :	Hr : 6.7										
				Sou	Source location & distance	ז & dista	nce		Ö	Corrections			CNL
Code	Description	SWL	No.	Xs	Υs	Чs	Lsr	Cno	CLsr	Catm	Csri	Cfac	dB(A)
ŝ													
7-70	32-2 woone Urane (ran Keung Kee)	97	, -	823530	837121	4.5	148.2	0	-51.4	0.0	-13.3	ო	35.3
S2-1	Lorry (Fan Keung Kee)	66	2	823530	837121	4.5	148.2	ო	-51.4	0.0	-13.3	n	40.3
S1-1	Operating Noise (Fan Keung Kee)	94	4	823530	837121	4	148.2	0	-514	00	13.3) (°.	3.0 3
S2-3	Forklift (Fan Keung Kee)	91	~	823530	837121	4.5	148.2	0	-514		13.3	ა ო	20.30
S10-1	S10-1 Forklift (Shing Fat Logistics Ltd.)	91	2	823601	837191	4.5	182.5	ю С	-53.2	0.0	-22.5	, ო	21.3
S10-2	Lorry (Shing Fat Logistics Ltd.)	66	ო	823601	837191	4.5	182.5	2	-53.2	0.0	-22.5		31.0
S3-1	S3-1 Sewage Treatment Plant	74	1	823477	837150	5.4	91.4	0	-47.2	0.0	0.0	ო	29.8
												TOTAL	42.8

Definition of terms:

 the sound power level of a source, dB(A) the equivalent continuous noise level over a 30 minute period, dB(A) the number of items of plant operating simultaneously the coordinates of the NSR, m the coordinates of the source, m the horizontal distance between the source and NSR, m
SWL - t LAeq - t No t Xr, Yr, Hr - t Xs, Ys, Hs - t Lsr - t

- correction for no. of plant items
 the correction for slant distance between the source and the NSR, dB(A)
 the air absorption using CONCAWE methodology
 the facade correction, dB(A)
 the sound reduction provided by the building envelope, dB(A)
 the corrected noise level, dB(A)(30 minutes)
- Cno Ct.sr Catm Catm Cosri Cosri

Calculation of Industrial Noise Levels (Daytime Period)

Kam Pok Road 22080 09/08/16 Job Title.: Job No.: Date:

NSR	NSR 81	Xr :	Xr : 823421										
	1/F	Yr:	Yr: 837223										
		Hr	Hr: 10.2										
			_	Sou	Source location & distance	n & dista	nce		Ö	Corrections			CNL
Code	Description	SWL	o N	×s	Υs	Чs	Lsr	C C C	CLsr	Catm	Csri	Cfac	dB(A)
S2-2	Mobile Crane (Fan Keung Kee)	6		823530	837121	4.5	148.3	0	-514	C	-11 8	Ċ.	36 A
S2-1	Lorry (Fan Keung Kee)	66	2	823530	837121	4.5	148.3	ი	-51.4	0.0	-11.8		41.8
S1-1	Operating Noise (Fan Keung Kee)	94	~~	823530	837121	4.5	148.3	0	-51.4	0.0	1 8) (C	33.8
S2-3	Forklift (Fan Keung Kee)	91	~	823530	837121	4.5	148.3	0	-51.4	0.0	11.8	, თ	30.8
S10-1	S10-1 [Forklift (Shing Fat Logistics Ltd.)	91	2	823601	837191	4.5	182.5	ო	-53.2	0.0	-16.8	ო	27.0
S10-2	S10-2 Lorry (Shing Fat Logistics Ltd.)	66	<i>с</i>	823601	837191	4.5	182.5	5	-53.2	0.0	-16.8	ო	36.7
22-1	S3-1 Sewage Treatment Plant	74	-	823477	837150	5.4	91.5	0	-47.2	0.0	0.0	ო	29.8
											F	TOTAL	44.7

Definition of terms:

 the sound power level of a source, dB(A) the equivalent continuous noise level over a 30 minute period, dB(A) the number of items of plant operating simuttaneously the coordinates of the NSR, m the coordinates of the source, m 	- the front operation operation of a source and NOK, IN
 the sound power level of a source the equivalent continuous noise I the number of items of plant opei the coordinates of the NSR, m the borizontal distance borizont 	- NIC LINITONICIAL DIA
SWL LAeq No. Xr, Yr, Hr Xs, Ys, Hs	ŝ

- correction for no. of plant items
 the correction for slant distance between the source and the NSR, dB(A)
 the air absorption using CONCAWE methodology
 the facade correction, dB(A)
 the sound reduction provided by the building envelope, dB(A)
 the corrected noise level, dB(A)(30 minutes)
- Cho Clsr Catm Cosri Cosri Con

Calculation of Industrial Noise Levels (Daytime Period)

Kam Pok Road 22080 09/08/16 Job Title.: Job No.: Date:

NSR	NSR 122	Xr :	Xr: 823490				-						
	G/F	Yr: 837 Hr: 6.8	Yr : 837285 Hr : 6.8										
				Sou	Source location & distance	n & dista	nce		ß	Corrections			CNL
Code	Description	SWL	No.	Xs	۲s	Нs	Lsr	Cno	CLsr	Catm	Csri	Cfac	dB(A)
			:										
S2-2	S2-2 Mobile Crane (Fan Keung Kee)	67	Ť	823530	837121	4.5	168.9	0	-52.6	0.0	-14.4	ю	33.0
S2-1	S2-1 Lorry (Fan Keung Kee)	66	2	823530	837121	4.5	168.9	ო	-52.6	0.0	-14.4	<i>м</i>	38.1
S1-1	Operating Noise (Fan Keung Kee)	94	~	823530	837121	4.5	168.9	0	-52.6	0.0	-14.4	ю	30.0
S2-3	Forklift (Fan Keung Kee)	91	~~	823530	837121	4.5	168.9	0	-52.6	0.0	- 14.4	с С	27.0
S10-1	S10-1 Forklift (Shing Fat Logistics Ltd.)	91	2	823601	837191	4.5	146.2	ო	-51.3	0.0	-14.9	ო	30.8
S10-2	S10-2 Lorry (Shing Fat Logistics Ltd.)	66	ო	823601	837191	4.5	146.2	Ω	-51.3	0.0	-14.9	<i>с</i> о	40.6
S3-1	S3-1 Sewage Treatment Plant	74	-	823477	837150	5.4	136.2	0	-50.7	0.0	0.0	ო	26.3
												TOTAL	43.6

Definition of terms:

	A)				
- the sound power level of a source, dB(A)	- the equivalent continuous noise level over a 30 minute period, dB(A)	- the number of items of plant operating simultaneously	- the coordinates of the NSR, m	 the coordinates of the source, m 	- the horizontal distance between the source and NSR, m
SWL	LAeq	No.	Xr, Yr, Hr	Xs, Ys, Hs	Lsr

- Cho Catm Catm Catm CNL
- correction for no. of plant items
 the correction for slant distance between the source and the NSR, dB(A)
 the air absorption using CONCAWE methodology
 the facade correction, dB(A)
 the sound reduction provided by the building envelope, dB(A)
 the corrected noise level, dB(A)(30 minutes)

Calculation of Industrial Noise Levels (Daytime Period)

Kam Pok Road 22080 09/08/16 Job Title.: Job No.: Date:

NSR	NSR 122	Xr :	Xr : 823490										
	1/F	Yr:	Yr : 837285										
		Hr:	Hr: 10.3										
				Sou	Source location & distance	n & dista	ince		Ö	Corrections			CNL
Code	Description	SWL	No.	Xs	۲s	ĥ	Lsr	Cno	CLsr	Catm	Csri	Cfac	dB(A)
S2-2	S2-2 Mobile Crane (Fan Keung Kee)	26	ү	823530	837121	4.5	169.0	0	-52.6	0.0	-7.2	ო	40.2
S2-1	Lorry (Fan Keung Kee)	66	2	823530	837121	4.5	169.0	m	-52.6	0.0	-7.2	ი	45.3
S1-1	Operating Noise (Fan Keung Kee)	94	~	823530	837121	4.5	169.0	0	-52.6	0.0	-7.2	സ	37.2
S2-3	Forklift (Fan Keung Kee)	91	-	823530	837121	4.5	169.0	0	-52.6	0.0	-7.2	ო	34.2
S10-1	S10-1 Forklift (Shing Fat Logistics Ltd.)	91	2	823601	837191	4 5	146.3	ო	-51.3	0.0	-9.5	ო	36.2
S10-2	S10-2 Lorry (Shing Fat Logistics Ltd.)	66	с	823601	837191	4.5	146.3	5	-51.3	0.0	-9.5	ო	46.0
S3-1	S3-1 Sewage Treatment Plant	74	4	823477	837150	5.4	136.3	0	-50.7	0.0	0.0	ო	26.3
												TOTAL	49.8

Definition of terms:

- the sound power level of a source, dB(A)	- the equivalent continuous noise level over a 30 minute period, dB(A)	 the number of items of plant operating simultaneously 	- the coordinates of the NSR, m	 the coordinates of the source, m 	 the horizontal distance between the source and NSR, m
SWL	LAeq	No	Xr, Yr, Hr	Xs, Ys, Hs	Lsr

Cho CLsr Catm Cosri CNL

- correction for no. of plant items
 the correction for slant distance between the source and the NSR, dB(A)
 the air absorption using CONCAWE methodology

 - the facade correction, dB(A)
 the sound reduction provided by the building envelope, dB(A)
 the corrected noise level, dB(A)(30 minutes)