

Appendix 4-4

Industrial Noise Calculation (Based on Field Survey)

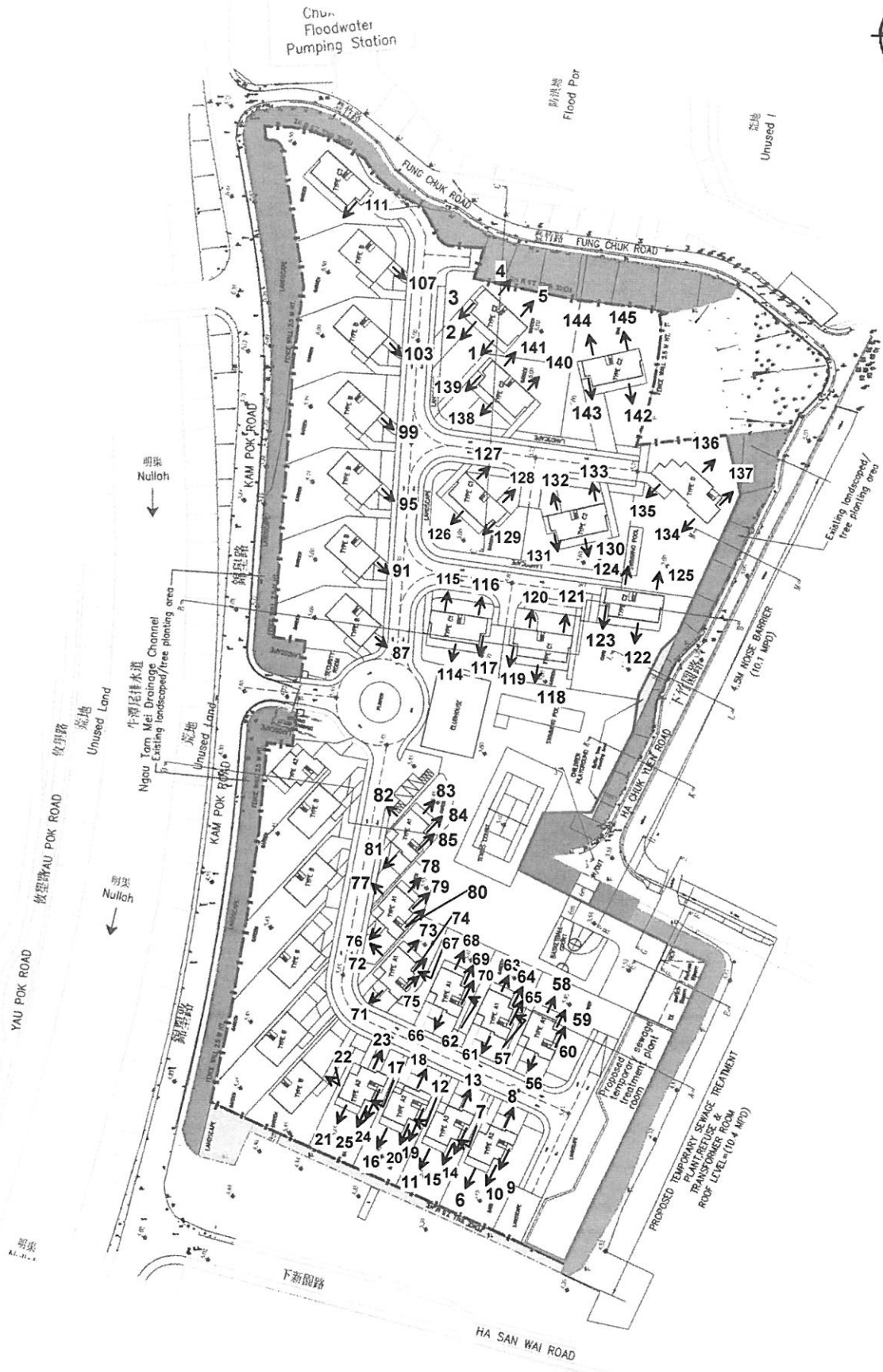


Figure: -

Title: Key of NSRs (Industrial Noise)

Project: EIA for Proposed Low-rise and Low-density Residential Development at Various Lots and Their Adjoining Government Land in D.D. 104, East of Kam Pok Road, Mai Po, Yuen Long, N.T.

RAMBOLL ENVIRON

Drawn by: CC

Checked by: KW

Rev.: -

Date: November 2015

Predicted Industrial Noise Levels in Daytime Period

Job Title: Kam Pok Road

Job No.: 22080

Date: 30/11/2015

Scenario: Noise Barrier (North: 4.5m, South: Sewage Treatment 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)	39.0	39.0	33.4	35.5	37.7				
1/F (House Type C with ground level 6.7mPD)					43.3	42.6	49.0	49.4	
Max:	40.3	40.2	33.4	35.5	39.8	43.3	42.6	49.0	49.4
(ANL - 5) Criterion Compliance	55.0 YES	55.0 YES	55.0 YES	55.0 YES	55.0 YES	55.0 YES	55.0 YES	55.0 YES	55.0 YES

Predicted Industrial Noise Levels in Daytime Period

Job Title.: Kam Pok Road
 Job No.: 22080
 Date: 30/11/2015
 Scenario: Noise Barrier (North: 4.5m, South: Sewage Treatment Plant only)

Floor	NSR 10	NSR 11	NSR 12	NSR 13	NSR 14	NSR 15	NSR 16	NSR 17	NSR 18
G/F (House Type A with ground level 5.45mPD)	45.8	38.6	37.8	45.3	42.0	40.1	37.4	36.4	44.0
1/F (House Type A with ground level 5.45mPD)	48.9	42.5	41.0	47.5	45.3	44.0	41.4	39.8	45.9
Max:	48.9	42.5	41.0	47.5	45.3	44.0	41.4	39.8	45.9
(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

Predicted Industrial Noise Levels in Daytime Period

Job Title.: Kam Pok Road
 Job No.: 22080
 Date: 30/11/2015
 Scenario: Noise Barrier (North: 4.5m, South: Sewage Treatment Plant only)

Floor	NSR 19	NSR 20	NSR 21	NSR 22	NSR 23	NSR 24	NSR 25
G/F (House Type A with ground level 5.45mPD)	40.9	38.9	37.7	35.3	43.1	38.8	37.7
1/F (House Type A with ground level 5.45mPD)	44.1	42.9	41.6	39.0	44.8	42.3	42.0
Max:	44.1	42.9	41.6	39.0	44.8	42.3	42.0
(ANL - 5) Criterion Compliance	YES	YES	YES	YES	YES	YES	YES

Predicted Industrial Noise Levels in Daytime Period

Job Title.: Kam Pok Road
 Job No.: 22080
 Date: 30/11/2015
 Scenario: Noise Barrier (North: 4.5m, South: Sewage Treatment Plant only)

Floor	NSR 56	NSR 57	NSR 58	NSR 59	NSR 60	NSR 61	NSR 62	NSR 63	NSR 64
G/F (House Type A with ground level 5.45mPD)	46.3	40.7	46.0	46.5	47.0	43.8	38.3	43.3	42.4
1/F (House Type A with ground level 5.45mPD)	49.0	43.2	48.8	49.5	49.9	46.3	41.4	46.0	45.6
Max:	49.0	43.2	48.8	49.5	49.9	46.3	41.4	46.0	45.6
(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

Predicted Industrial Noise Levels in Daytime Period

Job Title.: Kam Pok Road
 Job No.: 22080
 Date: 30/11/2015
 Scenario: Noise Barrier (North: 4.5m, South: Sewage 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)	41.1	42.3	36.6	41.9	41.2	39.2	36.3	35.4	40.5
1/F (House Type A with ground level 5.45mPD)	44.6	44.7	40.2	44.7	44.4	43.1	40.2	39.1	43.5
Max:	44.6	44.7	40.2	44.7	44.4	43.1	40.2	39.1	43.5
(ANL - 5) Criterion Compliance	55.0 YES	55.0 YES	55.0 YES	55.0 YES	55.0 YES	55.0 YES	55.0 YES	55.0 YES	55.0 YES

Predicted Industrial Noise Levels in Daytime Period

Job Title.: Kam Pok Road
 Job No.: 22080
 Date: 30/11/2015
 Scenario: Noise Barrier (North: 4.5m, South: Sewage Treatment 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)	38.2	38.8	36.0	34.7	42.8	43.0	42.7	41.1	33.8
1/F (House Type A with ground level 5.45mPD)	42.3	42.6	40.3	38.5	44.4	44.7	44.4	42.7	37.9
Max:	42.3	42.6	40.3	38.5	44.4	44.7	44.4	42.7	37.9
(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

Predicted Industrial Noise Levels in Daytime Period

Job Title.: Kam Pok Road
 Job No.: 22080
 Date: 30/11/2015
 Scenario: Noise Barrier (North: 4.5m, South: Sewage Treatment Plant only)

Floor	NSR 83	NSR 84	NSR 85
G/F (House Type A with ground level 5.45mPD)	42.1	42.3	42.4
1/F (House Type A with ground level 5.45mPD)	44.0	44.2	44.2
Max:	44.0	44.2	44.2
(ANL - 5) Criterion Compliance	55.0 YES	55.0 YES	55.0 YES

Predicted Industrial Noise Levels in Daytime Period

Job Title: Kam Pok Road

Job No.: 22080

Date: 30/11/2015

Scenario: Noise Barrier (North: 4.5m, South: Sewage Treatment Plant only)

Floor	NSR 87	NSR 91	NSR 95	NSR 99	NSR 103	NSR 107	NSR 111
G/F (House Type A with ground level 5.6mPD)	37.0	36.5					
G/F (House Type A with ground level 5.75mPD)		36.0	35.5				
G/F (House Type A with ground level 6mPD)				37.0		36.4	33.5
G/F (House Type A with ground level 6.5mPD)	40.2	39.6					
1/F (House Type A with ground level 5.6mPD)			39.1	38.6			
1/F (House Type A with ground level 5.75mPD)					38.6		
1/F (House Type A with ground level 6mPD)						38.5	36.4
1/F (House Type A with ground level 6.5mPD)							
Max:	40.2	39.6	39.1	38.6	38.6	38.5	36.4
(ANL - 5) Criterion	55.0	55.0	55.0	55.0	55.0	55.0	55.0
Compliance	YES	YES	YES	YES	YES	YES	YES

Predicted Industrial Noise Levels in Daytime Period

Job Title: Kam Pok Road

Job No.: 22080

Date: 30/11/2015

Scenario: Noise Barrier (North: 4.5m, South: Sewage Treatment Plant only)

Floor	NSR 114	NSR 115	NSR 116	NSR 117	NSR 118	NSR 119	NSR 120	NSR 121	NSR 122
G/F (Houses Type C with ground level 5.6mPD)	39.6	32.5	32.5	40.9	41.5	32.8	33.2	33.3	40.7
1/F (Houses Type C with ground level 5.6mPD)	42.6	37.1	37.1	42.9	44.3	37.2	37.8	38.0	47.1
Max:	42.6	37.1	37.1	42.9	44.3	37.2	37.8	38.0	47.1
(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

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)

Floor	NSR 123	NSR 124	NSR 125	NSR 126	NSR 127	NSR 128	NSR 129	NSR 130	NSR 131
G/F (House Type C with ground level 5.6mPD)	33.0	32.8	33.0	38.7	35.2	35.4	38.3	37.2	39.8
1/F (House Type C with ground level 5.6mPD)	37.8	37.5	37.8	41.1	38.3	38.7	41.1	41.1	43.2
Max:	37.8	37.5	37.8	41.1	38.3	38.7	41.1	41.1	43.2
(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

Predicted Industrial Noise Levels in Daytime Period

Job Title.: Kam Pok Road
 Job No.: 22080
 Date: 30/11/2015
 Scenario: Noise Barrier (North: 4.5m, South: Sewage Treatment Plant only)

Floor	NSR 132	NSR 133	NSR 134	NSR 135	NSR 136	NSR 137	NSR 138	NSR 139	NSR 140
G/F (House Type C with ground level 5.6mPD)	31.5	31.5	39.2	40.2	32.3	37.1			
G/F (House Type D with ground level 6mPD)							39.4	29.8	32.0
1/F (House Type C with ground level 5.6mPD)	36.0	36.0	45.7	44.4	37.2	45.9			
1/F (House Type D with ground level 6mPD)							41.8	34.1	36.5
Max:	36.0	36.0	45.7	44.4	37.2	45.9	41.8	34.1	36.5
(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

Predicted Industrial Noise Levels in Daytime Period

Job Title.: Kam Pok Road
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 Date: 30/11/2015
 Scenario: Noise Barrier (North: 4.5m, South: Sewage Treatment Plant only)

Floor	NSR 141	NSR 142	NSR 143	NSR 144	NSR 145
G/F (House Type D with ground level 6mPD)	36.4	39.2	36.1	30.0	30.0
1/F (House Type D with ground level 6mPD)	38.6	42.5	39.0	34.2	34.4
Max:	38.6	42.5	39.0	34.2	34.4
(ANL - 5) Criterion Compliance	55.0	55.0	55.0	55.0	55.0
	YES	YES	YES	YES	YES