

| Receiver                                      | ASR | Noise Levels / Criteria, dB(A) |                |                               | Contributing Noise Sources | Apportioned Criteria, dB(A)<br>(d) - All adds up to (c) | Propagation |          | Corrections, dB(A) |      |     |     | Permissible SWL, dB(A) | Remarks |     |
|---|-----|--------------------------------|----------------|-------------------------------|----------------------------|---|-------------|----------|--------------------|------|-----|-----|------------------------|---------|-----|
|   |     | ANL-5 (a)                      | Prevailing (b) | Design (c) = min of (a) & (b) |                            |   | Dist, m     | Dir, deg | Facade             | Dist | Dir | Ton |                        |         | Int |
| DIH-12-1 (Residential Building)<br>Daytime    | C   | 65                             | 69             | 65                            | VS - DIH - 1               | 50  | 215         | 0        | 3                  | -55  | 0   | 3   | 0                      | 99      |     |
|   |     |                                |                |                               | VS - DIH - 2               | 50  | 210         | 0        | 3                  | -54  | 0   | 3   | 0                      | 98      |     |
|   |     |                                |                |                               | VS - DIH - 3               | 50  | 200         | 0        | 3                  | -54  | 0   | 3   | 0                      | 98      |     |
|   |     |                                |                |                               | VS - DIH - 4               | 50  | 210         | 0        | 3                  | -54  | 0   | 3   | 0                      | 98      |     |
|   |     |                                |                |                               | VS - DIH - 5               | 50  | 195         | 0        | 3                  | -54  | 0   | 3   | 0                      | 98      |     |
|   |     |                                |                |                               | VS - DIH - 6               | 50  | 190         | 0        | 3                  | -54  | 0   | 3   | 0                      | 98      |     |
|   |     |                                |                |                               | VS - DIH - 7               | 50  | 205         | 0        | 3                  | -54  | 0   | 3   | 0                      | 98      |     |
|   |     |                                |                |                               | VS - DIH - 8               | 50  | 180         | 90       | 3                  | -53  | -5  | 3   | 0                      | 102     |     |
|   |     |                                |                |                               | VS - DIH - 9               | 50  | 180         | 0        | 3                  | -53  | 0   | 3   | 0                      | 97      |     |
|   |     |                                |                |                               | VS - DIH - 10              | 50  | 180         | 0        | 3                  | -53  | 0   | 3   | 0                      | 97      |     |
|   |     |                                |                |                               | VS - DIH - 11              | 50  | 185         | 180      | 3                  | -53  | -10 | 3   | 0                      | 107     |     |
|   |     |                                |                |                               | VS - DIH - 12              | 50  | 185         | 90       | 3                  | -53  | -5  | 3   | 0                      | 102     |     |
|   |     |                                |                |                               | VS - DIH - 13              | 50  | 205         | 0        | 3                  | -54  | 0   | 3   | 0                      | 98      |     |
|   |     |                                |                |                               | VS - DIH - 14              | 50  | 210         | 0        | 3                  | -54  | 0   | 3   | 0                      | 98      |     |
|   |     |                                |                |                               | VS - DIH - 15              | 50  | 210         | 90       | 3                  | -54  | -5  | 3   | 0                      | 103     |     |
|   |     |                                |                |                               | VS - DIH - 16              | 50  | 205         | 0        | 3                  | -54  | 0   | 3   | 0                      | 98      |     |
|   |     |                                |                |                               | VS - DIH - 17              | 50  | 210         | 90       | 3                  | -54  | -5  | 3   | 0                      | 103     |     |
|   |     |                                |                |                               | VS - DIH - 18              | 50  | 210         | 180      | 3                  | -54  | -10 | 3   | 0                      | 108     |     |
|   |     |                                |                |                               | VS - DIH - 19              | 50  | 215         | 90       | 3                  | -55  | -5  | 3   | 0                      | 104     |     |
|   |     |                                |                |                               | VS - DIH - 20              | 50  | 215         | 0        | 3                  | -55  | 0   | 3   | 0                      | 99      |     |
|   |     |                                |                |                               | VS - DIH - 21              | 50  | 215         | 90       | 3                  | -55  | -5  | 3   | 0                      | 104     |     |
|   |     |                                |                |                               | VS - DIH - 22              | 50  | 215         | 180      | 3                  | -55  | -10 | 3   | 0                      | 109     |     |
|   |     |                                |                |                               | VS - DIH - 23              | 50  | 220         | 90       | 3                  | -55  | -5  | 3   | 0                      | 104     |     |
|   |     |                                |                |                               | VS - DIH - 24              | 50  | 220         | 0        | 3                  | -55  | 0   | 3   | 0                      | 99      |     |
|   |     |                                |                |                               | VS - DIH - 25              | 50  | 220         | 90       | 3                  | -55  | -5  | 3   | 0                      | 104     |     |
|   |     |                                |                |                               | VS - DIH - 26              | 50  | 220         | 180      | 3                  | -55  | -10 | 3   | 0                      | 109     |     |
|   |     |                                |                |                               | VS - DIH - 27              | 50  | 220         | 90       | 3                  | -55  | -5  | 3   | 0                      | 104     |     |
|   |     |                                |                |                               | VS - DIH - 28              | 50  | 220         | 0        | 3                  | -55  | 0   | 3   | 0                      | 99      |     |
|   |     |                                |                |                               | VS - DIH - 29              | 50  | 220         | 90       | 3                  | -55  | -5  | 3   | 0                      | 104     |     |
|   |     |                                |                |                               | VS - DIH - 30              | 50  | 225         | 180      | 3                  | -55  | -10 | 3   | 0                      | 109     |     |
|   |     |                                |                |                               | VS - DIH - 31              | 50  | 225         | 90       | 3                  | -55  | -5  | 3   | 0                      | 104     |     |
|   |     |                                |                |                               | VS - DIH - 32              | 50  | 220         | 0        | 3                  | -55  | 0   | 3   | 0                      | 99      |     |
|   |     |                                |                |                               | VS - DIH - 33              | 50  | 225         | 90       | 3                  | -55  | -5  | 3   | 0                      | 104     |     |
|   |     |                                |                |                               | VS - DIH - 34              | 50  | 225         | 180      | 3                  | -55  | -10 | 3   | 0                      | 109     |     |
|   |     |                                |                |                               | 65                         |   |             |          |                    |      |     |     |                        |         |     |
| DIH-12-1 (Residential Building)<br>Night-time | C   | 55                             | 62             | 55                            | VS - DIH - 1               | 40  | 215         | 0        | 3                  | -55  | 0   | 3   | 0                      | 89      |     |
|   |     |                                |                |                               | VS - DIH - 2               | 40  | 210         | 0        | 3                  | -54  | 0   | 3   | 0                      | 88      |     |
|   |     |                                |                |                               | VS - DIH - 3               | 40  | 200         | 0        | 3                  | -54  | 0   | 3   | 0                      | 88      |     |
|   |     |                                |                |                               | VS - DIH - 4               | 40  | 210         | 0        | 3                  | -54  | 0   | 3   | 0                      | 88      |     |
|   |     |                                |                |                               | VS - DIH - 5               | 40  | 195         | 0        | 3                  | -54  | 0   | 3   | 0                      | 88      |     |
|   |     |                                |                |                               | VS - DIH - 6               | 40  | 190         | 0        | 3                  | -54  | 0   | 3   | 0                      | 88      |     |
|   |     |                                |                |                               | VS - DIH - 7               | 40  | 205         | 0        | 3                  | -54  | 0   | 3   | 0                      | 88      |     |
|   |     |                                |                |                               | VS - DIH - 8               | 40  | 180         | 90       | 3                  | -53  | -5  | 3   | 0                      | 92      |     |
|   |     |                                |                |                               | VS - DIH - 9               | 40  | 180         | 0        | 3                  | -53  | 0   | 3   | 0                      | 87      |     |
|   |     |                                |                |                               | VS - DIH - 10              | 40  | 180         | 0        | 3                  | -53  | 0   | 3   | 0                      | 87      |     |
|   |     |                                |                |                               | VS - DIH - 11              | 40  | 185         | 180      | 3                  | -53  | -10 | 3   | 0                      | 97      |     |
|   |     |                                |                |                               | VS - DIH - 12              | 40  | 185         | 90       | 3                  | -53  | -5  | 3   | 0                      | 92      |     |
|   |     |                                |                |                               | VS - DIH - 13              | 40  | 205         | 0        | 3                  | -54  | 0   | 3   | 0                      | 88      |     |
|   |     |                                |                |                               | VS - DIH - 14              | 40  | 210         | 0        | 3                  | -54  | 0   | 3   | 0                      | 88      |     |
|   |     |                                |                |                               | VS - DIH - 15              | 40  | 210         | 90       | 3                  | -54  | -5  | 3   | 0                      | 93      |     |
|   |     |                                |                |                               | VS - DIH - 16              | 40  | 205         | 0        | 3                  | -54  | 0   | 3   | 0                      | 88      |     |
|   |     |                                |                |                               | VS - DIH - 17              | 40  | 210         | 90       | 3                  | -54  | -5  | 3   | 0                      | 93      |     |
|   |     |                                |                |                               | VS - DIH - 18              | 40  | 210         | 180      | 3                  | -54  | -10 | 3   | 0                      | 98      |     |
|   |     |                                |                |                               | VS - DIH - 19              | 40  | 215         | 90       | 3                  | -55  | -5  | 3   | 0                      | 94      |     |
|   |     |                                |                |                               | VS - DIH - 20              | 40  | 215         | 0        | 3                  | -55  | 0   | 3   | 0                      | 89      |     |
|   |     |                                |                |                               | VS - DIH - 21              | 40  | 215         | 90       | 3                  | -55  | -5  | 3   | 0                      | 94      |     |
|   |     |                                |                |                               | VS - DIH - 22              | 40  | 215         | 180      | 3                  | -55  | -10 | 3   | 0                      | 99      |     |
|   |     |                                |                |                               | VS - DIH - 23              | 40  | 220         | 90       | 3                  | -55  | -5  | 3   | 0                      | 94      |     |
|   |     |                                |                |                               | VS - DIH - 24              | 40  | 220         | 0        | 3                  | -55  | 0   | 3   | 0                      | 89      |     |
|   |     |                                |                |                               | VS - DIH - 25              | 40  | 220         | 90       | 3                  | -55  | -5  | 3   | 0                      | 94      |     |
|   |     |                                |                |                               | VS - DIH - 26              | 40  | 220         | 180      | 3                  | -55  | -10 | 3   | 0                      | 99      |     |
|   |     |                                |                |                               | VS - DIH - 27              | 40  | 220         | 90       | 3                  | -55  | -5  | 3   | 0                      | 94      |     |
|   |     |                                |                |                               | VS - DIH - 28              | 40  | 220         | 0        | 3                  | -55  | 0   | 3   | 0                      | 89      |     |
|   |     |                                |                |                               | VS - DIH - 29              | 40  | 220         | 90       | 3                  | -55  | -5  | 3   | 0                      | 94      |     |
|   |     |                                |                |                               | VS - DIH - 30              | 40  | 225         | 180      | 3                  | -55  | -10 | 3   | 0                      | 99      |     |
|   |     |                                |                |                               | VS - DIH - 31              | 40  | 225         | 90       | 3                  | -55  | -5  | 3   | 0                      | 94      |     |
|   |     |                                |                |                               | VS - DIH - 32              | 40  | 220         | 0        | 3                  | -55  | 0   | 3   | 0                      | 89      |     |
|   |     |                                |                |                               | VS - DIH - 33              | 40  | 225         | 90       | 3                  | -55  | -5  | 3   | 0                      | 94      |     |
|   |     |                                |                |                               | VS - DIH - 34              | 40  | 225         | 180      | 3                  | -55  | -10 | 3   | 0                      | 99      |     |
|   |     |                                |                |                               | 55                         |   |             |          |                    |      |     |     |                        |         |     |

| Receiver                                      | ASR | Noise Levels / Criteria, dB(A) |                |                               | Contributing Noise Sources | Apportioned Criteria, dB(A)<br>(d) - All adds up to (c) | Propagation |          | Corrections, dB(A) |      |     |     | Permissible SWL, dB(A) | Remarks |     |
|---|-----|--------------------------------|----------------|-------------------------------|----------------------------|---|-------------|----------|--------------------|------|-----|-----|------------------------|---------|-----|
|   |     | ANL-5 (a)                      | Prevailing (b) | Design (c) = min of (a) & (b) |                            |   | Dist, m     | Dir, deg | Facade             | Dist | Dir | Ton |                        |         | Int |
| DIH-12-2 (Residential Building)<br>Daytime    | C   | 65                             | 69             | 65                            | VS - DIH - 1               | 50  | 175         | 0        | 3                  | -53  | 0   | 3   | 0                      | 97      |     |
|   |     |                                |                |                               | VS - DIH - 2               | 50  | 180         | 0        | 3                  | -53  | 0   | 3   | 0                      | 97      |     |
|   |     |                                |                |                               | VS - DIH - 3               | 50  | 175         | 0        | 3                  | -53  | 0   | 3   | 0                      | 97      |     |
|   |     |                                |                |                               | VS - DIH - 4               | 50  | 185         | 0        | 3                  | -53  | 0   | 3   | 0                      | 97      |     |
|   |     |                                |                |                               | VS - DIH - 5               | 50  | 175         | 0        | 3                  | -53  | 0   | 3   | 0                      | 97      |     |
|   |     |                                |                |                               | VS - DIH - 6               | 50  | 180         | 0        | 3                  | -53  | 0   | 3   | 0                      | 97      |     |
|   |     |                                |                |                               | VS - DIH - 7               | 50  | 195         | 0        | 3                  | -54  | 0   | 3   | 0                      | 98      |     |
|   |     |                                |                |                               | VS - DIH - 8               | 50  | 225         | 90       | 3                  | -55  | -5  | 3   | 0                      | 104     |     |
|   |     |                                |                |                               | VS - DIH - 9               | 50  | 230         | 0        | 3                  | -55  | 0   | 3   | 0                      | 99      |     |
|   |     |                                |                |                               | VS - DIH - 10              | 50  | 235         | 0        | 3                  | -55  | 0   | 3   | 0                      | 99      |     |
|   |     |                                |                |                               | VS - DIH - 11              | 50  | 235         | 180      | 3                  | -55  | -10 | 3   | 0                      | 109     |     |
|   |     |                                |                |                               | VS - DIH - 12              | 50  | 240         | 90       | 3                  | -56  | -5  | 3   | 0                      | 105     |     |
|   |     |                                |                |                               | VS - DIH - 13              | 50  | 255         | 0        | 3                  | -56  | 0   | 3   | 0                      | 100     |     |
|   |     |                                |                |                               | VS - DIH - 14              | 50  | 255         | 0        | 3                  | -56  | 0   | 3   | 0                      | 100     |     |
|   |     |                                |                |                               | VS - DIH - 15              | 50  | 260         | 0        | 3                  | -56  | 0   | 3   | 0                      | 100     |     |
|   |     |                                |                |                               | VS - DIH - 16              | 50  | 260         | 0        | 3                  | -56  | 0   | 3   | 0                      | 100     |     |
|   |     |                                |                |                               | VS - DIH - 17              | 50  | 260         | 90       | 3                  | -56  | -5  | 3   | 0                      | 105     |     |
|   |     |                                |                |                               | VS - DIH - 18              | 50  | 260         | 90       | 3                  | -56  | -5  | 3   | 0                      | 105     |     |
|   |     |                                |                |                               | VS - DIH - 19              | 50  | 260         | 0        | 3                  | -56  | 0   | 3   | 0                      | 100     |     |
|   |     |                                |                |                               | VS - DIH - 20              | 50  | 260         | 0        | 3                  | -56  | 0   | 3   | 0                      | 100     |     |
|   |     |                                |                |                               | VS - DIH - 21              | 50  | 265         | 90       | 3                  | -56  | -5  | 3   | 0                      | 105     |     |
|   |     |                                |                |                               | VS - DIH - 22              | 50  | 265         | 90       | 3                  | -56  | -5  | 3   | 0                      | 105     |     |
|   |     |                                |                |                               | VS - DIH - 23              | 50  | 270         | 0        | 3                  | -57  | 0   | 3   | 0                      | 101     |     |
|   |     |                                |                |                               | VS - DIH - 24              | 50  | 270         | 0        | 3                  | -57  | 0   | 3   | 0                      | 101     |     |
|   |     |                                |                |                               | VS - DIH - 25              | 50  | 275         | 90       | 3                  | -57  | -5  | 3   | 0                      | 106     |     |
|   |     |                                |                |                               | VS - DIH - 26              | 50  | 275         | 90       | 3                  | -57  | -5  | 3   | 0                      | 106     |     |
|   |     |                                |                |                               | VS - DIH - 27              | 50  | 280         | 0        | 3                  | -57  | 0   | 3   | 0                      | 101     |     |
|   |     |                                |                |                               | VS - DIH - 28              | 50  | 280         | 0        | 3                  | -57  | 0   | 3   | 0                      | 101     |     |
|   |     |                                |                |                               | VS - DIH - 29              | 50  | 280         | 90       | 3                  | -57  | -5  | 3   | 0                      | 106     |     |
|   |     |                                |                |                               | VS - DIH - 30              | 50  | 280         | 90       | 3                  | -57  | -5  | 3   | 0                      | 106     |     |
|   |     |                                |                |                               | VS - DIH - 31              | 50  | 285         | 0        | 3                  | -57  | 0   | 3   | 0                      | 101     |     |
|   |     |                                |                |                               | VS - DIH - 32              | 50  | 285         | 0        | 3                  | -57  | 0   | 3   | 0                      | 101     |     |
|   |     |                                |                |                               | VS - DIH - 33              | 50  | 285         | 90       | 3                  | -57  | -5  | 3   | 0                      | 106     |     |
|   |     |                                |                |                               | VS - DIH - 34              | 50  | 285         | 90       | 3                  | -57  | -5  | 3   | 0                      | 106     |     |
|   |     |                                |                |                               | 65                         |   |             |          |                    |      |     |     |                        |         |     |
| DIH-12-2 (Residential Building)<br>Night-time | C   | 55                             | 62             | 55                            | VS - DIH - 1               | 40  | 175         | 0        | 3                  | -53  | 0   | 3   | 0                      | 87      |     |
|   |     |                                |                |                               | VS - DIH - 2               | 40  | 180         | 0        | 3                  | -53  | 0   | 3   | 0                      | 87      |     |
|   |     |                                |                |                               | VS - DIH - 3               | 40  | 175         | 0        | 3                  | -53  | 0   | 3   | 0                      | 87      |     |
|   |     |                                |                |                               | VS - DIH - 4               | 40  | 185         | 0        | 3                  | -53  | 0   | 3   | 0                      | 87      |     |
|   |     |                                |                |                               | VS - DIH - 5               | 40  | 175         | 0        | 3                  | -53  | 0   | 3   | 0                      | 87      |     |
|   |     |                                |                |                               | VS - DIH - 6               | 40  | 180         | 0        | 3                  | -53  | 0   | 3   | 0                      | 87      |     |
|   |     |                                |                |                               | VS - DIH - 7               | 40  | 195         | 0        | 3                  | -54  | 0   | 3   | 0                      | 88      |     |
|   |     |                                |                |                               | VS - DIH - 8               | 40  | 225         | 90       | 3                  | -55  | -5  | 3   | 0                      | 94      |     |
|   |     |                                |                |                               | VS - DIH - 9               | 40  | 230         | 0        | 3                  | -55  | 0   | 3   | 0                      | 89      |     |
|   |     |                                |                |                               | VS - DIH - 10              | 40  | 235         | 0        | 3                  | -55  | 0   | 3   | 0                      | 89      |     |
|   |     |                                |                |                               | VS - DIH - 11              | 40  | 235         | 180      | 3                  | -55  | -10 | 3   | 0                      | 99      |     |
|   |     |                                |                |                               | VS - DIH - 12              | 40  | 240         | 90       | 3                  | -56  | -5  | 3   | 0                      | 95      |     |
|   |     |                                |                |                               | VS - DIH - 13              | 40  | 255         | 0        | 3                  | -56  | 0   | 3   | 0                      | 90      |     |
|   |     |                                |                |                               | VS - DIH - 14              | 40  | 255         | 0        | 3                  | -56  | 0   | 3   | 0                      | 90      |     |
|   |     |                                |                |                               | VS - DIH - 15              | 40  | 260         | 0        | 3                  | -56  | 0   | 3   | 0                      | 90      |     |
|   |     |                                |                |                               | VS - DIH - 16              | 40  | 260         | 0        | 3                  | -56  | 0   | 3   | 0                      | 90      |     |
|   |     |                                |                |                               | VS - DIH - 17              | 40  | 260         | 90       | 3                  | -56  | -5  | 3   | 0                      | 95      |     |
|   |     |                                |                |                               | VS - DIH - 18              | 40  | 260         | 90       | 3                  | -56  | -5  | 3   | 0                      | 95      |     |
|   |     |                                |                |                               | VS - DIH - 19              | 40  | 260         | 0        | 3                  | -56  | 0   | 3   | 0                      | 90      |     |
|   |     |                                |                |                               | VS - DIH - 20              | 40  | 260         | 0        | 3                  | -56  | 0   | 3   | 0                      | 90      |     |
|   |     |                                |                |                               | VS - DIH - 21              | 40  | 265         | 90       | 3                  | -56  | -5  | 3   | 0                      | 95      |     |
|   |     |                                |                |                               | VS - DIH - 22              | 40  | 265         | 90       | 3                  | -56  | -5  | 3   | 0                      | 95      |     |
|   |     |                                |                |                               | VS - DIH - 23              | 40  | 270         | 0        | 3                  | -57  | 0   | 3   | 0                      | 91      |     |
|   |     |                                |                |                               | VS - DIH - 24              | 40  | 270         | 0        | 3                  | -57  | 0   | 3   | 0                      | 91      |     |
|   |     |                                |                |                               | VS - DIH - 25              | 40  | 275         | 90       | 3                  | -57  | -5  | 3   | 0                      | 96      |     |
|   |     |                                |                |                               | VS - DIH - 26              | 40  | 275         | 90       | 3                  | -57  | -5  | 3   | 0                      | 96      |     |
|   |     |                                |                |                               | VS - DIH - 27              | 40  | 280         | 0        | 3                  | -57  | 0   | 3   | 0                      | 91      |     |
|   |     |                                |                |                               | VS - DIH - 28              | 40  | 280         | 0        | 3                  | -57  | 0   | 3   | 0                      | 91      |     |
|   |     |                                |                |                               | VS - DIH - 29              | 40  | 280         | 90       | 3                  | -57  | -5  | 3   | 0                      | 96      |     |
|   |     |                                |                |                               | VS - DIH - 30              | 40  | 280         | 90       | 3                  | -57  | -5  | 3   | 0                      | 96      |     |
|   |     |                                |                |                               | VS - DIH - 31              | 40  | 285         | 0        | 3                  | -57  | 0   | 3   | 0                      | 91      |     |
|   |     |                                |                |                               | VS - DIH - 32              | 40  | 285         | 0        | 3                  | -57  | 0   | 3   | 0                      | 91      |     |
|   |     |                                |                |                               | VS - DIH - 33              | 40  | 285         | 90       | 3                  | -57  | -5  | 3   | 0                      | 96      |     |
|   |     |                                |                |                               | VS - DIH - 34              | 40  | 285         | 90       | 3                  | -57  | -5  | 3   | 0                      | 96      |     |
|   |     |                                |                |                               | 55                         |   |             |          |                    |      |     |     |                        |         |     |

| Receiver                                      | ASR | Noise Levels / Criteria, dB(A) |                |                               | Contributing Noise Sources | Apportioned Criteria, dB(A)<br>(d) - All adds up to (c) | Propagation |          | Corrections, dB(A) |      |     |     | Permissible SWL, dB(A) | Remarks |     |
|---|-----|--------------------------------|----------------|-------------------------------|----------------------------|---|-------------|----------|--------------------|------|-----|-----|------------------------|---------|-----|
|   |     | ANL-5 (a)                      | Prevailing (b) | Design (c) = min of (a) & (b) |                            |   | Dist, m     | Dir, deg | Facade             | Dist | Dir | Ton |                        |         | Int |
| DIH-11-1 (Residential Building)<br>Daytime    | C   | 65                             | 69             | 65                            | VS - DIH - 1               | 50  | 95          | 0        | 3                  | -48  | 0   | 3   | 0                      | 92      |     |
|   |     |                                |                |                               | VS - DIH - 2               | 50  | 100         | 0        | 3                  | -48  | 0   | 3   | 0                      | 92      |     |
|   |     |                                |                |                               | VS - DIH - 3               | 50  | 105         | 0        | 3                  | -48  | 0   | 3   | 0                      | 92      |     |
|   |     |                                |                |                               | VS - DIH - 4               | 50  | 115         | 0        | 3                  | -49  | 0   | 3   | 0                      | 93      |     |
|   |     |                                |                |                               | VS - DIH - 5               | 50  | 115         | 0        | 3                  | -49  | 0   | 3   | 0                      | 93      |     |
|   |     |                                |                |                               | VS - DIH - 6               | 50  | 130         | 0        | 3                  | -50  | 0   | 3   | 0                      | 94      |     |
|   |     |                                |                |                               | VS - DIH - 7               | 50  | 135         | 0        | 3                  | -51  | 0   | 3   | 0                      | 95      |     |
|   |     |                                |                |                               | VS - DIH - 8               | 50  | 220         | 0        | 3                  | -55  | 0   | 3   | 0                      | 99      |     |
|   |     |                                |                |                               | VS - DIH - 9               | 50  | 225         | 0        | 3                  | -55  | 0   | 3   | 0                      | 99      |     |
|   |     |                                |                |                               | VS - DIH - 10              | 50  | 230         | 0        | 3                  | -55  | 0   | 3   | 0                      | 99      |     |
|   |     |                                |                |                               | VS - DIH - 11              | 50  | 230         | 90       | 3                  | -55  | -5  | 3   | 0                      | 104     |     |
|   |     |                                |                |                               | VS - DIH - 12              | 50  | 240         | 90       | 3                  | -56  | -5  | 3   | 0                      | 105     |     |
|   |     |                                |                |                               | VS - DIH - 13              | 50  | 240         | 0        | 3                  | -56  | 0   | 3   | 0                      | 100     |     |
|   |     |                                |                |                               | VS - DIH - 14              | 50  | 240         | 0        | 3                  | -56  | 0   | 3   | 0                      | 100     |     |
|   |     |                                |                |                               | VS - DIH - 15              | 50  | 245         | 0        | 3                  | -56  | 0   | 3   | 0                      | 100     |     |
|   |     |                                |                |                               | VS - DIH - 16              | 50  | 250         | 0        | 3                  | -56  | 0   | 3   | 0                      | 100     |     |
|   |     |                                |                |                               | VS - DIH - 17              | 50  | 250         | 180      | 3                  | -56  | -10 | 3   | 0                      | 110     |     |
|   |     |                                |                |                               | VS - DIH - 18              | 50  | 250         | 90       | 3                  | -56  | -5  | 3   | 0                      | 105     |     |
|   |     |                                |                |                               | VS - DIH - 19              | 50  | 245         | 0        | 3                  | -56  | 0   | 3   | 0                      | 100     |     |
|   |     |                                |                |                               | VS - DIH - 20              | 50  | 250         | 0        | 3                  | -56  | 0   | 3   | 0                      | 100     |     |
|   |     |                                |                |                               | VS - DIH - 21              | 50  | 250         | 180      | 3                  | -56  | -10 | 3   | 0                      | 110     |     |
|   |     |                                |                |                               | VS - DIH - 22              | 50  | 250         | 90       | 3                  | -56  | -5  | 3   | 0                      | 105     |     |
|   |     |                                |                |                               | VS - DIH - 23              | 50  | 255         | 0        | 3                  | -56  | 0   | 3   | 0                      | 100     |     |
|   |     |                                |                |                               | VS - DIH - 24              | 50  | 260         | 0        | 3                  | -56  | 0   | 3   | 0                      | 100     |     |
|   |     |                                |                |                               | VS - DIH - 25              | 50  | 260         | 180      | 3                  | -56  | -10 | 3   | 0                      | 110     |     |
|   |     |                                |                |                               | VS - DIH - 26              | 50  | 260         | 90       | 3                  | -56  | -5  | 3   | 0                      | 105     |     |
|   |     |                                |                |                               | VS - DIH - 27              | 50  | 270         | 0        | 3                  | -57  | 0   | 3   | 0                      | 101     |     |
|   |     |                                |                |                               | VS - DIH - 28              | 50  | 270         | 0        | 3                  | -57  | 0   | 3   | 0                      | 101     |     |
|   |     |                                |                |                               | VS - DIH - 29              | 50  | 275         | 180      | 3                  | -57  | -10 | 3   | 0                      | 111     |     |
|   |     |                                |                |                               | VS - DIH - 30              | 50  | 275         | 90       | 3                  | -57  | -5  | 3   | 0                      | 106     |     |
|   |     |                                |                |                               | VS - DIH - 31              | 50  | 275         | 0        | 3                  | -57  | 0   | 3   | 0                      | 101     |     |
|   |     |                                |                |                               | VS - DIH - 32              | 50  | 280         | 0        | 3                  | -57  | 0   | 3   | 0                      | 101     |     |
|   |     |                                |                |                               | VS - DIH - 33              | 50  | 280         | 180      | 3                  | -57  | -10 | 3   | 0                      | 111     |     |
|   |     |                                |                |                               | VS - DIH - 34              | 50  | 280         | 90       | 3                  | -57  | -5  | 3   | 0                      | 106     |     |
|   |     |                                |                |                               | 65                         |   |             |          |                    |      |     |     |                        |         |     |
| DIH-11-1 (Residential Building)<br>Night-time | C   | 55                             | 62             | 55                            | VS - DIH - 1               | 40  | 95          | 0        | 3                  | -48  | 0   | 3   | 0                      | 82      |     |
|   |     |                                |                |                               | VS - DIH - 2               | 40  | 100         | 0        | 3                  | -48  | 0   | 3   | 0                      | 82      |     |
|   |     |                                |                |                               | VS - DIH - 3               | 40  | 105         | 0        | 3                  | -48  | 0   | 3   | 0                      | 82      |     |
|   |     |                                |                |                               | VS - DIH - 4               | 40  | 115         | 0        | 3                  | -49  | 0   | 3   | 0                      | 83      |     |
|   |     |                                |                |                               | VS - DIH - 5               | 40  | 115         | 0        | 3                  | -49  | 0   | 3   | 0                      | 83      |     |
|   |     |                                |                |                               | VS - DIH - 6               | 40  | 130         | 0        | 3                  | -50  | 0   | 3   | 0                      | 84      |     |
|   |     |                                |                |                               | VS - DIH - 7               | 40  | 135         | 0        | 3                  | -51  | 0   | 3   | 0                      | 85      |     |
|   |     |                                |                |                               | VS - DIH - 8               | 40  | 220         | 0        | 3                  | -55  | 0   | 3   | 0                      | 89      |     |
|   |     |                                |                |                               | VS - DIH - 9               | 40  | 225         | 0        | 3                  | -55  | 0   | 3   | 0                      | 89      |     |
|   |     |                                |                |                               | VS - DIH - 10              | 40  | 230         | 0        | 3                  | -55  | 0   | 3   | 0                      | 89      |     |
|   |     |                                |                |                               | VS - DIH - 11              | 40  | 230         | 90       | 3                  | -55  | -5  | 3   | 0                      | 94      |     |
|   |     |                                |                |                               | VS - DIH - 12              | 40  | 240         | 90       | 3                  | -56  | -5  | 3   | 0                      | 95      |     |
|   |     |                                |                |                               | VS - DIH - 13              | 40  | 240         | 0        | 3                  | -56  | 0   | 3   | 0                      | 90      |     |
|   |     |                                |                |                               | VS - DIH - 14              | 40  | 240         | 0        | 3                  | -56  | 0   | 3   | 0                      | 90      |     |
|   |     |                                |                |                               | VS - DIH - 15              | 40  | 245         | 0        | 3                  | -56  | 0   | 3   | 0                      | 90      |     |
|   |     |                                |                |                               | VS - DIH - 16              | 40  | 250         | 0        | 3                  | -56  | 0   | 3   | 0                      | 90      |     |
|   |     |                                |                |                               | VS - DIH - 17              | 40  | 250         | 180      | 3                  | -56  | -10 | 3   | 0                      | 100     |     |
|   |     |                                |                |                               | VS - DIH - 18              | 40  | 250         | 90       | 3                  | -56  | -5  | 3   | 0                      | 95      |     |
|   |     |                                |                |                               | VS - DIH - 19              | 40  | 245         | 0        | 3                  | -56  | 0   | 3   | 0                      | 90      |     |
|   |     |                                |                |                               | VS - DIH - 20              | 40  | 250         | 0        | 3                  | -56  | 0   | 3   | 0                      | 90      |     |
|   |     |                                |                |                               | VS - DIH - 21              | 40  | 250         | 180      | 3                  | -56  | -10 | 3   | 0                      | 100     |     |
|   |     |                                |                |                               | VS - DIH - 22              | 40  | 250         | 90       | 3                  | -56  | -5  | 3   | 0                      | 95      |     |
|   |     |                                |                |                               | VS - DIH - 23              | 40  | 255         | 0        | 3                  | -56  | 0   | 3   | 0                      | 90      |     |
|   |     |                                |                |                               | VS - DIH - 24              | 40  | 260         | 0        | 3                  | -56  | 0   | 3   | 0                      | 90      |     |
|   |     |                                |                |                               | VS - DIH - 25              | 40  | 260         | 180      | 3                  | -56  | -10 | 3   | 0                      | 100     |     |
|   |     |                                |                |                               | VS - DIH - 26              | 40  | 260         | 90       | 3                  | -56  | -5  | 3   | 0                      | 95      |     |
|   |     |                                |                |                               | VS - DIH - 27              | 40  | 270         | 0        | 3                  | -57  | 0   | 3   | 0                      | 91      |     |
|   |     |                                |                |                               | VS - DIH - 28              | 40  | 270         | 0        | 3                  | -57  | 0   | 3   | 0                      | 91      |     |
|   |     |                                |                |                               | VS - DIH - 29              | 40  | 275         | 180      | 3                  | -57  | -10 | 3   | 0                      | 101     |     |
|   |     |                                |                |                               | VS - DIH - 30              | 40  | 275         | 90       | 3                  | -57  | -5  | 3   | 0                      | 96      |     |
|   |     |                                |                |                               | VS - DIH - 31              | 40  | 275         | 0        | 3                  | -57  | 0   | 3   | 0                      | 91      |     |
|   |     |                                |                |                               | VS - DIH - 32              | 40  | 280         | 0        | 3                  | -57  | 0   | 3   | 0                      | 91      |     |
|   |     |                                |                |                               | VS - DIH - 33              | 40  | 280         | 180      | 3                  | -57  | -10 | 3   | 0                      | 101     |     |
|   |     |                                |                |                               | VS - DIH - 34              | 40  | 280         | 90       | 3                  | -57  | -5  | 3   | 0                      | 96      |     |
|   |     |                                |                |                               | 55                         |   |             |          |                    |      |     |     |                        |         |     |

Project : SCL - Stabling Sidings at Hung Hom Freight Yard  
 Title : Maximum allowable SWL for Ventilation Shaft at DIH

| Receiver                                   | ASR | Noise Levels / Criteria, dB(A) |                |                               | Contributing Noise Sources                    | Apportioned Criteria, dB(A)<br>(d) - All adds up to (c) | Propagation |          | Corrections, dB(A) |              |     |     | Permissible SWL, dB(A) | Remarks |  |     |   |   |
|--|-----|--------------------------------|----------------|-------------------------------|---|---|-------------|----------|--------------------|--------------|-----|-----|------------------------|---------|--|-----|---|---|
|  |     | ANL-5 (a)                      | Prevailing (b) | Design (c) = min of (a) & (b) |   |   | Dist, m     | Dir, deg | Facade             | Dist         | Dir | Ton |                        |         | Int                                    |     |   |   |
| DIH-9-1 (Education Building)<br>Daytime    | B   | 60                             | 76             | 60                            | VS - DIH - 1                                  | 52  | 255         | 0        | 3                  | -56          | 0   | 3   | 0                      | 102     |  |     |   |   |
|  |     |                                |                |                               | VS - DIH - 2                                  | 52  | 265         | 0        | 3                  | -56          | 0   | 3   | 0                      | 102     |  |     |   |   |
|  |     |                                |                |                               | VS - DIH - 3                                  | 52  | 280         | 0        | 3                  | -57          | 0   | 3   | 0                      | 103     |  |     |   |   |
|  |     |                                |                |                               | VS - DIH - 4                                  | 52  | 275         | 0        | 3                  | -57          | 0   | 3   | 0                      | 103     |  |     |   |   |
|  |     |                                |                |                               | VS - DIH - 5                                  | 52  | 290         | 0        | 3                  | -57          | 0   | 3   | 0                      | 103     |  |     |   |   |
|  |     |                                |                |                               | VS - DIH - 6                                  | 52  | 300         | 0        | 3                  | -58          | 0   | 3   | 0                      | 104     |  |     |   |   |
|  |     |                                |                |                               | VS - DIH - 7                                  | 52  | 300         | 0        | 3                  | -58          | 0   | 3   | 0                      | 104     |  |     |   |   |
|  |     |                                |                |                               |   | 60  |             |          |                    |              |     |     |                        |         |  |     |   |   |
| DIH-9-1 (Education Building)<br>Night-time | B   | 50                             | 71             | 50                            | VS - DIH - 1                                  | 42  | 255         | 0        | 3                  | -56          | 0   | 3   | 0                      | 92      | No school activities during night-time |     |   |   |
|  |     |                                |                |                               | VS - DIH - 2                                  | 42  | 265         | 0        | 3                  | -56          | 0   | 3   | 0                      | 92      |  |     |   |   |
|  |     |                                |                |                               | VS - DIH - 3                                  | 42  | 280         | 0        | 3                  | -57          | 0   | 3   | 0                      | 93      |  |     |   |   |
|  |     |                                |                |                               | VS - DIH - 4                                  | 42  | 275         | 0        | 3                  | -57          | 0   | 3   | 0                      | 93      |  |     |   |   |
|  |     |                                |                |                               | VS - DIH - 5                                  | 42  | 290         | 0        | 3                  | -57          | 0   | 3   | 0                      | 93      |  |     |   |   |
|  |     |                                |                |                               | VS - DIH - 6                                  | 42  | 300         | 0        | 3                  | -58          | 0   | 3   | 0                      | 94      |  |     |   |   |
|  |     |                                |                |                               | VS - DIH - 7                                  | 42  | 300         | 0        | 3                  | -58          | 0   | 3   | 0                      | 94      |  |     |   |   |
|  |     |                                |                |                               |   | 50  |             |          |                    |              |     |     |                        |         |  |     |   |   |
| DIH-10-1 (Residential Building)<br>Daytime | B   | 60                             | 76             | 60                            | VS - DIH - 1                                  | 52  | 260         | 0        | 3                  | -56          | 0   | 3   | 0                      | 102     |  |     |   |   |
|  |     |                                |                |                               | VS - DIH - 2                                  | 52  | 270         | 0        | 3                  | -57          | 0   | 3   | 0                      | 103     |  |     |   |   |
|  |     |                                |                |                               | VS - DIH - 3                                  | 52  | 285         | 0        | 3                  | -57          | 0   | 3   | 0                      | 103     |  |     |   |   |
|  |     |                                |                |                               | VS - DIH - 4                                  | 52  | 275         | 0        | 3                  | -57          | 0   | 3   | 0                      | 103     |  |     |   |   |
|  |     |                                |                |                               | VS - DIH - 5                                  | 52  | 290         | 0        | 3                  | -57          | 0   | 3   | 0                      | 103     |  |     |   |   |
|  |     |                                |                |                               | VS - DIH - 7                                  | 52  | 300         | 0        | 3                  | -58          | 0   | 3   | 0                      | 104     |  |     |   |   |
|  |     |                                |                |                               |   | 60  |             |          |                    |              |     |     |                        |         |  |     |   |   |
|  |     |                                |                |                               | DIH-10-1 (Residential Building)<br>Night-time | B   | 50          | 71       | 50                 | VS - DIH - 1 | 42  | 260 | 0                      | 3       |  | -56 | 0 | 3 |
| VS - DIH - 2                               | 42  | 270                            | 0              | 3                             |   |   |             |          |                    | -57          | 0   | 3   | 0                      | 93      |  |     |   |   |
| VS - DIH - 3                               | 42  | 285                            | 0              | 3                             |   |   |             |          |                    | -57          | 0   | 3   | 0                      | 93      |  |     |   |   |
| VS - DIH - 4                               | 42  | 275                            | 0              | 3                             |   |   |             |          |                    | -57          | 0   | 3   | 0                      | 93      |  |     |   |   |
| VS - DIH - 5                               | 42  | 290                            | 0              | 3                             |   |   |             |          |                    | -57          | 0   | 3   | 0                      | 93      |  |     |   |   |
| VS - DIH - 7                               | 42  | 300                            | 0              | 3                             |   |   |             |          |                    | -58          | 0   | 3   | 0                      | 94      |  |     |   |   |
|  | 50  |                                |                |                               |   |   |             |          |                    |              |     |     |                        |         |  |     |   |   |

| Receiver                                 | ASR | Noise Levels / Criteria, dB(A) |                |                               | Contributing Noise Sources                  | Apportioned Criteria, dB(A)<br>(d) - All adds up to (c) | Propagation |          |        | Corrections, dB(A) |     |     | Permissible SWL, dB(A) | Remarks |  |    |   |   |    |  |
|--|-----|--------------------------------|----------------|-------------------------------|---|---|-------------|----------|--------|--------------------|-----|-----|------------------------|---------|--|----|---|---|----|--|
|  |     | ANL-5 (a)                      | Prevailing (b) | Design (c) = min of (a) & (b) |   |   | Dist, m     | Dir, deg | Facade | Dist               | Dir | Ton |                        |         | Int                                    |    |   |   |    |  |
| DIH-14-4 (Education Building)<br>Daytime | C   | 65                             | 72             | 65                            | VS - DIH - 7                                | 51  | 300         | 0        | 3      | -58                | 0   | 3   | 0                      | 103     |  |    |   |   |    |  |
|  |     |                                |                |                               | VS - DIH - 8                                | 51  | 245         | 90       | 3      | -56                | -5  | 3   | 0                      | 106     |  |    |   |   |    |  |
|  |     |                                |                |                               | VS - DIH - 9                                | 51  | 240         | 0        | 3      | -56                | 0   | 3   | 0                      | 101     |  |    |   |   |    |  |
|  |     |                                |                |                               | VS - DIH - 10                               | 51  | 240         | 90       | 3      | -56                | -5  | 3   | 0                      | 106     |  |    |   |   |    |  |
|  |     |                                |                |                               | VS - DIH - 11                               | 51  | 235         | 0        | 3      | -55                | 0   | 3   | 0                      | 100     |  |    |   |   |    |  |
|  |     |                                |                |                               | VS - DIH - 12                               | 51  | 235         | 0        | 3      | -55                | 0   | 3   | 0                      | 100     |  |    |   |   |    |  |
|  |     |                                |                |                               | VS - DIH - 13                               | 51  | 215         | 0        | 3      | -55                | 0   | 3   | 0                      | 100     |  |    |   |   |    |  |
|  |     |                                |                |                               | VS - DIH - 14                               | 51  | 215         | 0        | 3      | -55                | 0   | 3   | 0                      | 100     |  |    |   |   |    |  |
|  |     |                                |                |                               | VS - DIH - 15                               | 51  | 215         | 90       | 3      | -55                | -5  | 3   | 0                      | 105     |  |    |   |   |    |  |
|  |     |                                |                |                               | VS - DIH - 16                               | 51  | 215         | 180      | 3      | -55                | -10 | 3   | 0                      | 110     |  |    |   |   |    |  |
|  |     |                                |                |                               | VS - DIH - 17                               | 51  | 210         | 0        | 3      | -54                | 0   | 3   | 0                      | 99      |  |    |   |   |    |  |
|  |     |                                |                |                               | VS - DIH - 18                               | 51  | 210         | 0        | 3      | -54                | 0   | 3   | 0                      | 99      |  |    |   |   |    |  |
|  |     |                                |                |                               | VS - DIH - 19                               | 51  | 210         | 90       | 3      | -54                | -5  | 3   | 0                      | 104     |  |    |   |   |    |  |
|  |     |                                |                |                               | VS - DIH - 20                               | 51  | 210         | 180      | 3      | -54                | -10 | 3   | 0                      | 109     |  |    |   |   |    |  |
|  |     |                                |                |                               | VS - DIH - 21                               | 51  | 205         | 0        | 3      | -54                | 0   | 3   | 0                      | 99      |  |    |   |   |    |  |
|  |     |                                |                |                               | VS - DIH - 22                               | 51  | 205         | 0        | 3      | -54                | 0   | 3   | 0                      | 99      |  |    |   |   |    |  |
|  |     |                                |                |                               | VS - DIH - 23                               | 51  | 200         | 90       | 3      | -54                | -5  | 3   | 0                      | 104     |  |    |   |   |    |  |
|  |     |                                |                |                               | VS - DIH - 24                               | 51  | 200         | 180      | 3      | -54                | -10 | 3   | 0                      | 109     |  |    |   |   |    |  |
|  |     |                                |                |                               | VS - DIH - 25                               | 51  | 200         | 0        | 3      | -54                | 0   | 3   | 0                      | 99      |  |    |   |   |    |  |
|  |     |                                |                |                               | VS - DIH - 26                               | 51  | 200         | 0        | 3      | -54                | 0   | 3   | 0                      | 99      |  |    |   |   |    |  |
|  |     |                                |                |                               | VS - DIH - 27                               | 51  | 200         | 90       | 3      | -54                | -5  | 3   | 0                      | 104     |  |    |   |   |    |  |
|  |     |                                |                |                               | VS - DIH - 28                               | 51  | 200         | 180      | 3      | -54                | -10 | 3   | 0                      | 109     |  |    |   |   |    |  |
|  |     |                                |                |                               | VS - DIH - 29                               | 51  | 195         | 0        | 3      | -54                | 0   | 3   | 0                      | 99      |  |    |   |   |    |  |
|  |     |                                |                |                               | VS - DIH - 30                               | 51  | 195         | 0        | 3      | -54                | 0   | 3   | 0                      | 99      |  |    |   |   |    |  |
|  |     |                                |                |                               | VS - DIH - 31                               | 51  | 195         | 90       | 3      | -54                | -5  | 3   | 0                      | 104     |  |    |   |   |    |  |
|  |     |                                |                |                               | VS - DIH - 32                               | 51  | 195         | 180      | 3      | -54                | -10 | 3   | 0                      | 109     |  |    |   |   |    |  |
|  |     |                                |                |                               | VS - DIH - 33                               | 51  | 195         | 0        | 3      | -54                | 0   | 3   | 0                      | 99      |  |    |   |   |    |  |
|  |     |                                |                |                               | VS - DIH - 34                               | 51  | 190         | 0        | 3      | -54                | 0   | 3   | 0                      | 99      |  |    |   |   |    |  |
|  |     |                                |                |                               |   |   |             |          |        | 65                 |     |     |                        |         |  |    |   |   |    |  |
|  |     |                                |                |                               | DIH-14-4 (Education Building)<br>Night-time | C   | 55          | 63       | 55     | VS - DIH - 7       | 41  | 300 | 0                      | 3       | -58                                    | 0  | 3 | 0 | 93 | No school activities during night-time |
|  |     |                                |                |                               |   |   |             |          |        | VS - DIH - 8       | 41  | 245 | 90                     | 3       | -56                                    | -5 | 3 | 0 | 96 | No school activities during night-time |
|  |     |                                |                |                               |   |   |             |          |        | VS - DIH - 9       | 41  | 240 | 0                      | 3       | -56                                    | 0  | 3 | 0 | 91 | No school activities during night-time |
|  |     |                                |                |                               |   |   |             |          |        | VS - DIH - 10      | 41  | 240 | 90                     | 3       | -56                                    | -5 | 3 | 0 | 96 | No school activities during night-time |
|  |     |                                |                |                               |   |   |             |          |        | VS - DIH - 11      | 41  | 235 | 0                      | 3       | -55                                    | 0  | 3 | 0 | 90 | No school activities during night-time |
| VS - DIH - 12                            | 41  | 235                            | 0              | 3                             |   |   |             |          |        | -55                | 0   | 3   | 0                      | 90      | No school activities during night-time |    |   |   |    |  |
| VS - DIH - 13                            | 41  | 215                            | 0              | 3                             |   |   |             |          |        | -55                | 0   | 3   | 0                      | 90      | No school activities during night-time |    |   |   |    |  |
| VS - DIH - 14                            | 41  | 215                            | 0              | 3                             |   |   |             |          |        | -55                | 0   | 3   | 0                      | 90      | No school activities during night-time |    |   |   |    |  |
| VS - DIH - 15                            | 41  | 215                            | 90             | 3                             |   |   |             |          |        | -55                | -5  | 3   | 0                      | 95      | No school activities during night-time |    |   |   |    |  |
| VS - DIH - 16                            | 41  | 215                            | 180            | 3                             |   |   |             |          |        | -55                | -10 | 3   | 0                      | 100     | No school activities during night-time |    |   |   |    |  |
| VS - DIH - 17                            | 41  | 210                            | 0              | 3                             |   |   |             |          |        | -54                | 0   | 3   | 0                      | 89      | No school activities during night-time |    |   |   |    |  |
| VS - DIH - 18                            | 41  | 210                            | 0              | 3                             |   |   |             |          |        | -54                | 0   | 3   | 0                      | 89      | No school activities during night-time |    |   |   |    |  |
| VS - DIH - 19                            | 41  | 210                            | 90             | 3                             |   |   |             |          |        | -54                | -5  | 3   | 0                      | 94      | No school activities during night-time |    |   |   |    |  |
| VS - DIH - 20                            | 41  | 210                            | 180            | 3                             |   |   |             |          |        | -54                | -10 | 3   | 0                      | 99      | No school activities during night-time |    |   |   |    |  |
| VS - DIH - 21                            | 41  | 205                            | 0              | 3                             |   |   |             |          |        | -54                | 0   | 3   | 0                      | 89      | No school activities during night-time |    |   |   |    |  |
| VS - DIH - 22                            | 41  | 205                            | 0              | 3                             |   |   |             |          |        | -54                | 0   | 3   | 0                      | 89      | No school activities during night-time |    |   |   |    |  |
| VS - DIH - 23                            | 41  | 200                            | 90             | 3                             |   |   |             |          |        | -54                | -5  | 3   | 0                      | 94      | No school activities during night-time |    |   |   |    |  |
| VS - DIH - 24                            | 41  | 200                            | 180            | 3                             |   |   |             |          |        | -54                | -10 | 3   | 0                      | 99      | No school activities during night-time |    |   |   |    |  |
| VS - DIH - 25                            | 41  | 200                            | 0              | 3                             |   |   |             |          |        | -54                | 0   | 3   | 0                      | 89      | No school activities during night-time |    |   |   |    |  |
| VS - DIH - 26                            | 41  | 200                            | 0              | 3                             |   |   |             |          |        | -54                | 0   | 3   | 0                      | 89      | No school activities during night-time |    |   |   |    |  |
| VS - DIH - 27                            | 41  | 200                            | 90             | 3                             |   |   |             |          |        | -54                | -5  | 3   | 0                      | 94      | No school activities during night-time |    |   |   |    |  |
| VS - DIH - 28                            | 41  | 200                            | 180            | 3                             |   |   |             |          |        | -54                | -10 | 3   | 0                      | 99      | No school activities during night-time |    |   |   |    |  |
| VS - DIH - 29                            | 41  | 195                            | 0              | 3                             |   |   |             |          |        | -54                | 0   | 3   | 0                      | 89      | No school activities during night-time |    |   |   |    |  |
| VS - DIH - 30                            | 41  | 195                            | 0              | 3                             |   |   |             |          |        | -54                | 0   | 3   | 0                      | 89      | No school activities during night-time |    |   |   |    |  |
| VS - DIH - 31                            | 41  | 195                            | 90             | 3                             |   |   |             |          |        | -54                | -5  | 3   | 0                      | 94      | No school activities during night-time |    |   |   |    |  |
| VS - DIH - 32                            | 41  | 195                            | 180            | 3                             |   |   |             |          |        | -54                | -10 | 3   | 0                      | 99      | No school activities during night-time |    |   |   |    |  |
| VS - DIH - 33                            | 41  | 195                            | 0              | 3                             |   |   |             |          |        | -54                | 0   | 3   | 0                      | 89      | No school activities during night-time |    |   |   |    |  |
| VS - DIH - 34                            | 41  | 190                            | 0              | 3                             |   |   |             |          |        | -54                | 0   | 3   | 0                      | 89      | No school activities during night-time |    |   |   |    |  |
|  |     |                                |                |                               | 55  |   |             |          |        |                    |     |     |                        |         |  |    |   |   |    |  |

| Receiver                                   | ASR | Noise Levels / Criteria, dB(A) |                |                               | Contributing Noise Sources                    | Apportioned Criteria, dB(A)<br>(d) - All adds up to (c) | Propagation |          | Corrections, dB(A) |               |     |     | Permissible SWL, dB(A) | Remarks |     |    |   |   |    |  |
|--|-----|--------------------------------|----------------|-------------------------------|---|---|-------------|----------|--------------------|---------------|-----|-----|------------------------|---------|-----|----|---|---|----|--|
|  |     | ANL-5 (a)                      | Prevailing (b) | Design (c) = min of (a) & (b) |   |   | Dist, m     | Dir, deg | Facade             | Dist          | Dir | Ton |                        |         | Int |    |   |   |    |  |
| DIH-14-5 (Residential Building)<br>Daytime | C   | 65                             | 72             | 65                            | VS - DIH - 8                                  | 51  | 240         | 90       | 3                  | -56           | -5  | 3   | 0                      | 106     |     |    |   |   |    |  |
|  |     |                                |                |                               | VS - DIH - 9                                  | 51  | 235         | 0        | 3                  | -55           | 0   | 3   | 0                      | 100     |     |    |   |   |    |  |
|  |     |                                |                |                               | VS - DIH - 10                                 | 51  | 230         | 90       | 3                  | -55           | -5  | 3   | 0                      | 105     |     |    |   |   |    |  |
|  |     |                                |                |                               | VS - DIH - 11                                 | 51  | 230         | 0        | 3                  | -55           | 0   | 3   | 0                      | 100     |     |    |   |   |    |  |
|  |     |                                |                |                               | VS - DIH - 12                                 | 51  | 220         | 0        | 3                  | -55           | 0   | 3   | 0                      | 100     |     |    |   |   |    |  |
|  |     |                                |                |                               | VS - DIH - 13                                 | 51  | 215         | 0        | 3                  | -55           | 0   | 3   | 0                      | 100     |     |    |   |   |    |  |
|  |     |                                |                |                               | VS - DIH - 14                                 | 51  | 215         | 0        | 3                  | -55           | 0   | 3   | 0                      | 100     |     |    |   |   |    |  |
|  |     |                                |                |                               | VS - DIH - 15                                 | 51  | 210         | 180      | 3                  | -54           | -10 | 3   | 0                      | 109     |     |    |   |   |    |  |
|  |     |                                |                |                               | VS - DIH - 16                                 | 51  | 205         | 90       | 3                  | -54           | -5  | 3   | 0                      | 104     |     |    |   |   |    |  |
|  |     |                                |                |                               | VS - DIH - 17                                 | 51  | 205         | 0        | 3                  | -54           | 0   | 3   | 0                      | 99      |     |    |   |   |    |  |
|  |     |                                |                |                               | VS - DIH - 18                                 | 51  | 205         | 0        | 3                  | -54           | 0   | 3   | 0                      | 99      |     |    |   |   |    |  |
|  |     |                                |                |                               | VS - DIH - 19                                 | 51  | 205         | 180      | 3                  | -54           | -10 | 3   | 0                      | 109     |     |    |   |   |    |  |
|  |     |                                |                |                               | VS - DIH - 20                                 | 51  | 205         | 90       | 3                  | -54           | -5  | 3   | 0                      | 104     |     |    |   |   |    |  |
|  |     |                                |                |                               | VS - DIH - 21                                 | 51  | 200         | 0        | 3                  | -54           | 0   | 3   | 0                      | 99      |     |    |   |   |    |  |
|  |     |                                |                |                               | VS - DIH - 22                                 | 51  | 205         | 0        | 3                  | -54           | 0   | 3   | 0                      | 99      |     |    |   |   |    |  |
|  |     |                                |                |                               | VS - DIH - 23                                 | 51  | 195         | 180      | 3                  | -54           | -10 | 3   | 0                      | 109     |     |    |   |   |    |  |
|  |     |                                |                |                               | VS - DIH - 24                                 | 51  | 195         | 90       | 3                  | -54           | -5  | 3   | 0                      | 104     |     |    |   |   |    |  |
|  |     |                                |                |                               | VS - DIH - 25                                 | 51  | 195         | 0        | 3                  | -54           | 0   | 3   | 0                      | 99      |     |    |   |   |    |  |
|  |     |                                |                |                               | VS - DIH - 26                                 | 51  | 195         | 0        | 3                  | -54           | 0   | 3   | 0                      | 99      |     |    |   |   |    |  |
|  |     |                                |                |                               | VS - DIH - 27                                 | 51  | 185         | 180      | 3                  | -53           | -10 | 3   | 0                      | 108     |     |    |   |   |    |  |
|  |     |                                |                |                               | VS - DIH - 28                                 | 51  | 185         | 90       | 3                  | -53           | -5  | 3   | 0                      | 103     |     |    |   |   |    |  |
|  |     |                                |                |                               | VS - DIH - 29                                 | 51  | 185         | 0        | 3                  | -53           | 0   | 3   | 0                      | 98      |     |    |   |   |    |  |
|  |     |                                |                |                               | VS - DIH - 30                                 | 51  | 185         | 0        | 3                  | -53           | 0   | 3   | 0                      | 98      |     |    |   |   |    |  |
|  |     |                                |                |                               | VS - DIH - 31                                 | 51  | 180         | 180      | 3                  | -53           | -10 | 3   | 0                      | 108     |     |    |   |   |    |  |
|  |     |                                |                |                               | VS - DIH - 32                                 | 51  | 180         | 90       | 3                  | -53           | -5  | 3   | 0                      | 103     |     |    |   |   |    |  |
|  |     |                                |                |                               | VS - DIH - 33                                 | 51  | 175         | 0        | 3                  | -53           | 0   | 3   | 0                      | 98      |     |    |   |   |    |  |
|  |     |                                |                |                               | VS - DIH - 34                                 | 51  | 175         | 0        | 3                  | -53           | 0   | 3   | 0                      | 98      |     |    |   |   |    |  |
|  |     |                                |                |                               |   |   |             |          |                    | 65            |     |     |                        |         |     |    |   |   |    |  |
|  |     |                                |                |                               | DIH-14-5 (Residential Building)<br>Night-time | C   | 55          | 63       | 55                 | VS - DIH - 8  | 41  | 240 | 90                     | 3       | -56 | -5 | 3 | 0 | 96 |  |
|  |     |                                |                |                               |   |   |             |          |                    | VS - DIH - 9  | 41  | 235 | 0                      | 3       | -55 | 0  | 3 | 0 | 90 |  |
|  |     |                                |                |                               |   |   |             |          |                    | VS - DIH - 10 | 41  | 230 | 90                     | 3       | -55 | -5 | 3 | 0 | 95 |  |
|  |     |                                |                |                               |   |   |             |          |                    | VS - DIH - 11 | 41  | 230 | 0                      | 3       | -55 | 0  | 3 | 0 | 90 |  |
|  |     |                                |                |                               |   |   |             |          |                    | VS - DIH - 12 | 41  | 220 | 0                      | 3       | -55 | 0  | 3 | 0 | 90 |  |
|  |     |                                |                |                               |   |   |             |          |                    | VS - DIH - 13 | 41  | 215 | 0                      | 3       | -55 | 0  | 3 | 0 | 90 |  |
| VS - DIH - 14                              | 41  | 215                            | 0              | 3                             |   |   |             |          |                    | -55           | 0   | 3   | 0                      | 90      |     |    |   |   |    |  |
| VS - DIH - 15                              | 41  | 210                            | 180            | 3                             |   |   |             |          |                    | -54           | -10 | 3   | 0                      | 99      |     |    |   |   |    |  |
| VS - DIH - 16                              | 41  | 205                            | 90             | 3                             |   |   |             |          |                    | -54           | -5  | 3   | 0                      | 94      |     |    |   |   |    |  |
| VS - DIH - 17                              | 41  | 205                            | 0              | 3                             |   |   |             |          |                    | -54           | 0   | 3   | 0                      | 89      |     |    |   |   |    |  |
| VS - DIH - 18                              | 41  | 205                            | 0              | 3                             |   |   |             |          |                    | -54           | 0   | 3   | 0                      | 89      |     |    |   |   |    |  |
| VS - DIH - 19                              | 41  | 205                            | 180            | 3                             |   |   |             |          |                    | -54           | -10 | 3   | 0                      | 99      |     |    |   |   |    |  |
| VS - DIH - 20                              | 41  | 205                            | 90             | 3                             |   |   |             |          |                    | -54           | -5  | 3   | 0                      | 94      |     |    |   |   |    |  |
| VS - DIH - 21                              | 41  | 200                            | 0              | 3                             |   |   |             |          |                    | -54           | 0   | 3   | 0                      | 89      |     |    |   |   |    |  |
| VS - DIH - 22                              | 41  | 205                            | 0              | 3                             |   |   |             |          |                    | -54           | 0   | 3   | 0                      | 89      |     |    |   |   |    |  |
| VS - DIH - 23                              | 41  | 195                            | 180            | 3                             |   |   |             |          |                    | -54           | -10 | 3   | 0                      | 99      |     |    |   |   |    |  |
| VS - DIH - 24                              | 41  | 195                            | 90             | 3                             |   |   |             |          |                    | -54           | -5  | 3   | 0                      | 94      |     |    |   |   |    |  |
| VS - DIH - 25                              | 41  | 195                            | 0              | 3                             |   |   |             |          |                    | -54           | 0   | 3   | 0                      | 89      |     |    |   |   |    |  |
| VS - DIH - 26                              | 41  | 195                            | 0              | 3                             |   |   |             |          |                    | -54           | 0   | 3   | 0                      | 89      |     |    |   |   |    |  |
| VS - DIH - 27                              | 41  | 185                            | 180            | 3                             |   |   |             |          |                    | -53           | -10 | 3   | 0                      | 98      |     |    |   |   |    |  |
| VS - DIH - 28                              | 41  | 185                            | 90             | 3                             |   |   |             |          |                    | -53           | -5  | 3   | 0                      | 93      |     |    |   |   |    |  |
| VS - DIH - 29                              | 41  | 185                            | 0              | 3                             |   |   |             |          |                    | -53           | 0   | 3   | 0                      | 88      |     |    |   |   |    |  |
| VS - DIH - 30                              | 41  | 185                            | 0              | 3                             |   |   |             |          |                    | -53           | 0   | 3   | 0                      | 88      |     |    |   |   |    |  |
| VS - DIH - 31                              | 41  | 180                            | 180            | 3                             |   |   |             |          |                    | -53           | -10 | 3   | 0                      | 98      |     |    |   |   |    |  |
| VS - DIH - 32                              | 41  | 180                            | 90             | 3                             |   |   |             |          |                    | -53           | -5  | 3   | 0                      | 93      |     |    |   |   |    |  |
| VS - DIH - 33                              | 41  | 175                            | 0              | 3                             |   |   |             |          |                    | -53           | 0   | 3   | 0                      | 88      |     |    |   |   |    |  |
| VS - DIH - 34                              | 41  | 175                            | 0              | 3                             |   |   |             |          |                    | -53           | 0   | 3   | 0                      | 88      |     |    |   |   |    |  |
|  |     |                                |                |                               |   |   |             |          |                    | 55            |     |     |                        |         |     |    |   |   |    |  |

| Receiver                           | ASR | Noise Levels / Criteria, dB(A) |                |                               | Contributing Noise Sources | Apportioned Criteria, dB(A)<br>(d) - All adds up to (c) | Propagation |          | Corrections, dB(A) |      |     |     | Permissible SWL, dB(A) | Remarks |     |
|------------------------------------|-----|--------------------------------|----------------|-------------------------------|----------------------------|---|-------------|----------|--------------------|------|-----|-----|------------------------|---------|-----|
|                                    |     | ANL-5 (a)                      | Prevailing (b) | Design (c) = min of (a) & (b) |                            |   | Dist, m     | Dir, deg | Facade             | Dist | Dir | Ton |                        |         | Int |
| DIH-P1 (Planned NSR)<br>Daytime    | C   | 65                             | 72             | 65                            | VS - DIH - 1               | 50  | 35          | 0        | 3                  | -39  | 0   | 3   | 0                      | 83      |     |
|                                    |     |                                |                |                               | VS - DIH - 2               | 50  | 30          | 0        | 3                  | -38  | 0   | 3   | 0                      | 82      |     |
|                                    |     |                                |                |                               | VS - DIH - 3               | 50  | 30          | 0        | 3                  | -38  | 0   | 3   | 0                      | 82      |     |
|                                    |     |                                |                |                               | VS - DIH - 4               | 50  | 20          | 0        | 3                  | -34  | 0   | 3   | 0                      | 78      |     |
|                                    |     |                                |                |                               | VS - DIH - 5               | 50  | 30          | 0        | 3                  | -38  | 0   | 3   | 0                      | 82      |     |
|                                    |     |                                |                |                               | VS - DIH - 6               | 50  | 40          | 0        | 3                  | -40  | 0   | 3   | 0                      | 84      |     |
|                                    |     |                                |                |                               | VS - DIH - 7               | 50  | 30          | 0        | 3                  | -38  | 0   | 3   | 0                      | 82      |     |
|                                    |     |                                |                |                               | VS - DIH - 8               | 50  | 135         | 0        | 3                  | -51  | 0   | 3   | 0                      | 95      |     |
|                                    |     |                                |                |                               | VS - DIH - 9               | 50  | 140         | 0        | 3                  | -51  | 0   | 3   | 0                      | 95      |     |
|                                    |     |                                |                |                               | VS - DIH - 10              | 50  | 145         | 90       | 3                  | -51  | -5  | 3   | 0                      | 100     |     |
|                                    |     |                                |                |                               | VS - DIH - 11              | 50  | 145         | 0        | 3                  | -51  | 0   | 3   | 0                      | 95      |     |
|                                    |     |                                |                |                               | VS - DIH - 12              | 50  | 155         | 90       | 3                  | -52  | -5  | 3   | 0                      | 101     |     |
|                                    |     |                                |                |                               | VS - DIH - 13              | 50  | 140         | 0        | 3                  | -51  | 0   | 3   | 0                      | 95      |     |
|                                    |     |                                |                |                               | VS - DIH - 14              | 50  | 140         | 0        | 3                  | -51  | 0   | 3   | 0                      | 95      |     |
|                                    |     |                                |                |                               | VS - DIH - 15              | 50  | 150         | 0        | 3                  | -52  | 0   | 3   | 0                      | 96      |     |
|                                    |     |                                |                |                               | VS - DIH - 16              | 50  | 155         | 90       | 3                  | -52  | -5  | 3   | 0                      | 101     |     |
|                                    |     |                                |                |                               | VS - DIH - 17              | 50  | 155         | 90       | 3                  | -52  | -5  | 3   | 0                      | 101     |     |
|                                    |     |                                |                |                               | VS - DIH - 18              | 50  | 155         | 0        | 3                  | -52  | 0   | 3   | 0                      | 96      |     |
|                                    |     |                                |                |                               | VS - DIH - 19              | 50  | 150         | 0        | 3                  | -52  | 0   | 3   | 0                      | 96      |     |
|                                    |     |                                |                |                               | VS - DIH - 20              | 50  | 150         | 90       | 3                  | -52  | -5  | 3   | 0                      | 101     |     |
|                                    |     |                                |                |                               | VS - DIH - 21              | 50  | 155         | 90       | 3                  | -52  | -5  | 3   | 0                      | 101     |     |
|                                    |     |                                |                |                               | VS - DIH - 22              | 50  | 150         | 0        | 3                  | -52  | 0   | 3   | 0                      | 96      |     |
|                                    |     |                                |                |                               | VS - DIH - 23              | 50  | 160         | 0        | 3                  | -52  | 0   | 3   | 0                      | 96      |     |
|                                    |     |                                |                |                               | VS - DIH - 24              | 50  | 160         | 90       | 3                  | -52  | -5  | 3   | 0                      | 101     |     |
|                                    |     |                                |                |                               | VS - DIH - 25              | 50  | 165         | 90       | 3                  | -52  | -5  | 3   | 0                      | 101     |     |
|                                    |     |                                |                |                               | VS - DIH - 26              | 50  | 160         | 0        | 3                  | -52  | 0   | 3   | 0                      | 96      |     |
|                                    |     |                                |                |                               | VS - DIH - 27              | 50  | 175         | 0        | 3                  | -53  | 0   | 3   | 0                      | 97      |     |
|                                    |     |                                |                |                               | VS - DIH - 28              | 50  | 175         | 90       | 3                  | -53  | -5  | 3   | 0                      | 102     |     |
|                                    |     |                                |                |                               | VS - DIH - 29              | 50  | 180         | 90       | 3                  | -53  | -5  | 3   | 0                      | 102     |     |
|                                    |     |                                |                |                               | VS - DIH - 30              | 50  | 175         | 0        | 3                  | -53  | 0   | 3   | 0                      | 97      |     |
|                                    |     |                                |                |                               | VS - DIH - 31              | 50  | 180         | 0        | 3                  | -53  | 0   | 3   | 0                      | 97      |     |
|                                    |     |                                |                |                               | VS - DIH - 32              | 50  | 185         | 90       | 3                  | -53  | -5  | 3   | 0                      | 102     |     |
|                                    |     |                                |                |                               | VS - DIH - 33              | 50  | 185         | 90       | 3                  | -53  | -5  | 3   | 0                      | 102     |     |
|                                    |     |                                |                |                               | VS - DIH - 34              | 50  | 185         | 0        | 3                  | -53  | 0   | 3   | 0                      | 97      |     |
|                                    |     |                                |                |                               | 65                         |   |             |          |                    |      |     |     |                        |         |     |
| DIH-P1 (Planned NSR)<br>Night-time | C   | 55                             | 63             | 55                            | VS - DIH - 1               | 40  | 35          | 0        | 3                  | -39  | 0   | 3   | 0                      | 73      |     |
|                                    |     |                                |                |                               | VS - DIH - 2               | 40  | 30          | 0        | 3                  | -38  | 0   | 3   | 0                      | 72      |     |
|                                    |     |                                |                |                               | VS - DIH - 3               | 40  | 30          | 0        | 3                  | -38  | 0   | 3   | 0                      | 72      |     |
|                                    |     |                                |                |                               | VS - DIH - 4               | 40  | 20          | 0        | 3                  | -34  | 0   | 3   | 0                      | 68      |     |
|                                    |     |                                |                |                               | VS - DIH - 5               | 40  | 30          | 0        | 3                  | -38  | 0   | 3   | 0                      | 72      |     |
|                                    |     |                                |                |                               | VS - DIH - 6               | 40  | 40          | 0        | 3                  | -40  | 0   | 3   | 0                      | 74      |     |
|                                    |     |                                |                |                               | VS - DIH - 7               | 40  | 30          | 0        | 3                  | -38  | 0   | 3   | 0                      | 72      |     |
|                                    |     |                                |                |                               | VS - DIH - 8               | 40  | 135         | 0        | 3                  | -51  | 0   | 3   | 0                      | 85      |     |
|                                    |     |                                |                |                               | VS - DIH - 9               | 40  | 140         | 0        | 3                  | -51  | 0   | 3   | 0                      | 85      |     |
|                                    |     |                                |                |                               | VS - DIH - 10              | 40  | 145         | 90       | 3                  | -51  | -5  | 3   | 0                      | 90      |     |
|                                    |     |                                |                |                               | VS - DIH - 11              | 40  | 145         | 0        | 3                  | -51  | 0   | 3   | 0                      | 85      |     |
|                                    |     |                                |                |                               | VS - DIH - 12              | 40  | 155         | 90       | 3                  | -52  | -5  | 3   | 0                      | 91      |     |
|                                    |     |                                |                |                               | VS - DIH - 13              | 40  | 140         | 0        | 3                  | -51  | 0   | 3   | 0                      | 85      |     |
|                                    |     |                                |                |                               | VS - DIH - 14              | 40  | 140         | 0        | 3                  | -51  | 0   | 3   | 0                      | 85      |     |
|                                    |     |                                |                |                               | VS - DIH - 15              | 40  | 150         | 0        | 3                  | -52  | 0   | 3   | 0                      | 86      |     |
|                                    |     |                                |                |                               | VS - DIH - 16              | 40  | 155         | 90       | 3                  | -52  | -5  | 3   | 0                      | 91      |     |
|                                    |     |                                |                |                               | VS - DIH - 17              | 40  | 155         | 90       | 3                  | -52  | -5  | 3   | 0                      | 91      |     |
|                                    |     |                                |                |                               | VS - DIH - 18              | 40  | 155         | 0        | 3                  | -52  | 0   | 3   | 0                      | 86      |     |
|                                    |     |                                |                |                               | VS - DIH - 19              | 40  | 150         | 0        | 3                  | -52  | 0   | 3   | 0                      | 86      |     |
|                                    |     |                                |                |                               | VS - DIH - 20              | 40  | 150         | 90       | 3                  | -52  | -5  | 3   | 0                      | 91      |     |
|                                    |     |                                |                |                               | VS - DIH - 21              | 40  | 155         | 90       | 3                  | -52  | -5  | 3   | 0                      | 91      |     |
|                                    |     |                                |                |                               | VS - DIH - 22              | 40  | 150         | 0        | 3                  | -52  | 0   | 3   | 0                      | 86      |     |
|                                    |     |                                |                |                               | VS - DIH - 23              | 40  | 160         | 0        | 3                  | -52  | 0   | 3   | 0                      | 86      |     |
|                                    |     |                                |                |                               | VS - DIH - 24              | 40  | 160         | 90       | 3                  | -52  | -5  | 3   | 0                      | 91      |     |
|                                    |     |                                |                |                               | VS - DIH - 25              | 40  | 165         | 90       | 3                  | -52  | -5  | 3   | 0                      | 91      |     |
|                                    |     |                                |                |                               | VS - DIH - 26              | 40  | 160         | 0        | 3                  | -52  | 0   | 3   | 0                      | 86      |     |
|                                    |     |                                |                |                               | VS - DIH - 27              | 40  | 175         | 0        | 3                  | -53  | 0   | 3   | 0                      | 87      |     |
|                                    |     |                                |                |                               | VS - DIH - 28              | 40  | 175         | 90       | 3                  | -53  | -5  | 3   | 0                      | 92      |     |
|                                    |     |                                |                |                               | VS - DIH - 29              | 40  | 180         | 90       | 3                  | -53  | -5  | 3   | 0                      | 92      |     |
|                                    |     |                                |                |                               | VS - DIH - 30              | 40  | 175         | 0        | 3                  | -53  | 0   | 3   | 0                      | 87      |     |
|                                    |     |                                |                |                               | VS - DIH - 31              | 40  | 180         | 0        | 3                  | -53  | 0   | 3   | 0                      | 87      |     |
|                                    |     |                                |                |                               | VS - DIH - 32              | 40  | 185         | 90       | 3                  | -53  | -5  | 3   | 0                      | 92      |     |
|                                    |     |                                |                |                               | VS - DIH - 33              | 40  | 185         | 90       | 3                  | -53  | -5  | 3   | 0                      | 92      |     |
|                                    |     |                                |                |                               | VS - DIH - 34              | 40  | 185         | 0        | 3                  | -53  | 0   | 3   | 0                      | 87      |     |
|                                    |     |                                |                |                               | 55                         |   |             |          |                    |      |     |     |                        |         |     |

| Receiver                           | ASR | Noise Levels / Criteria, dB(A) |                |                               | Contributing Noise Sources | Apportioned Criteria, dB(A)<br>(d) - All adds up to (c) | Propagation |          | Corrections, dB(A) |      |     |     | Permissible SWL, dB(A) | Remarks |     |
|------------------------------------|-----|--------------------------------|----------------|-------------------------------|----------------------------|---|-------------|----------|--------------------|------|-----|-----|------------------------|---------|-----|
|                                    |     | ANL-5 (a)                      | Prevailing (b) | Design (c) = min of (a) & (b) |                            |   | Dist, m     | Dir, deg | Facade             | Dist | Dir | Ton |                        |         | Int |
| DIH-P2 (Planned NSR)<br>Daytime    | C   | 65                             | 72             | 65                            | VS - DIH - 1               | 49  | 195         | 0        | 3                  | -54  | 0   | 3   | 0                      | 97      |     |
|                                    |     |                                |                |                               | VS - DIH - 2               | 49  | 180         | 0        | 3                  | -53  | 0   | 3   | 0                      | 96      |     |
|                                    |     |                                |                |                               | VS - DIH - 3               | 49  | 170         | 0        | 3                  | -53  | 0   | 3   | 0                      | 96      |     |
|                                    |     |                                |                |                               | VS - DIH - 4               | 49  | 170         | 0        | 3                  | -53  | 0   | 3   | 0                      | 96      |     |
|                                    |     |                                |                |                               | VS - DIH - 5               | 50  | 160         | 0        | 3                  | -52  | 0   | 3   | 0                      | 96      |     |
|                                    |     |                                |                |                               | VS - DIH - 6               | 50  | 145         | 0        | 3                  | -51  | 0   | 3   | 0                      | 95      |     |
|                                    |     |                                |                |                               | VS - DIH - 7               | 50  | 140         | 0        | 3                  | -51  | 0   | 3   | 0                      | 95      |     |
|                                    |     |                                |                |                               | VS - DIH - 8               | 50  | 60          | 90       | 4                  | -44  | -5  | 3   | 0                      | 92      |     |
|                                    |     |                                |                |                               | VS - DIH - 9               | 50  | 55          | 0        | 5                  | -43  | 0   | 3   | 0                      | 85      |     |
|                                    |     |                                |                |                               | VS - DIH - 10              | 50  | 55          | 180      | 6                  | -43  | -10 | 3   | 0                      | 94      |     |
|                                    |     |                                |                |                               | VS - DIH - 11              | 50  | 55          | 0        | 7                  | -43  | 0   | 3   | 0                      | 83      |     |
|                                    |     |                                |                |                               | VS - DIH - 12              | 50  | 50          | 90       | 8                  | -42  | -5  | 3   | 0                      | 86      |     |
|                                    |     |                                |                |                               | VS - DIH - 13              | 50  | 35          | 0        | 9                  | -39  | 0   | 3   | 0                      | 77      |     |
|                                    |     |                                |                |                               | VS - DIH - 14              | 50  | 30          | 0        | 10                 | -38  | 0   | 3   | 0                      | 75      |     |
|                                    |     |                                |                |                               | VS - DIH - 15              | 50  | 30          | 90       | 11                 | -38  | -5  | 3   | 0                      | 79      |     |
|                                    |     |                                |                |                               | VS - DIH - 16              | 50  | 30          | 180      | 3                  | -38  | -10 | 3   | 0                      | 92      |     |
|                                    |     |                                |                |                               | VS - DIH - 17              | 50  | 25          | 90       | 3                  | -36  | -5  | 3   | 0                      | 85      |     |
|                                    |     |                                |                |                               | VS - DIH - 18              | 50  | 25          | 0        | 3                  | -36  | 0   | 3   | 0                      | 80      |     |
|                                    |     |                                |                |                               | VS - DIH - 19              | 50  | 25          | 90       | 3                  | -36  | -5  | 3   | 0                      | 85      |     |
|                                    |     |                                |                |                               | VS - DIH - 20              | 50  | 25          | 180      | 3                  | -36  | -10 | 3   | 0                      | 90      |     |
|                                    |     |                                |                |                               | VS - DIH - 21              | 50  | 20          | 90       | 3                  | -34  | -5  | 3   | 0                      | 83      |     |
|                                    |     |                                |                |                               | VS - DIH - 22              | 50  | 20          | 0        | 3                  | -34  | 0   | 3   | 0                      | 78      |     |
|                                    |     |                                |                |                               | VS - DIH - 23              | 50  | 20          | 90       | 3                  | -34  | -5  | 3   | 0                      | 83      |     |
|                                    |     |                                |                |                               | VS - DIH - 24              | 50  | 20          | 180      | 3                  | -34  | -10 | 3   | 0                      | 88      |     |
|                                    |     |                                |                |                               | VS - DIH - 25              | 50  | 15          | 90       | 3                  | -32  | -5  | 3   | 0                      | 81      |     |
|                                    |     |                                |                |                               | VS - DIH - 26              | 55  | 15          | 0        | 3                  | -32  | 0   | 3   | 0                      | 81      |     |
|                                    |     |                                |                |                               | VS - DIH - 27              | 50  | 25          | 90       | 3                  | -36  | -5  | 3   | 0                      | 85      |     |
|                                    |     |                                |                |                               | VS - DIH - 28              | 50  | 30          | 180      | 3                  | -38  | -10 | 3   | 0                      | 92      |     |
|                                    |     |                                |                |                               | VS - DIH - 29              | 50  | 25          | 90       | 3                  | -36  | -5  | 3   | 0                      | 85      |     |
|                                    |     |                                |                |                               | VS - DIH - 30              | 50  | 20          | 0        | 3                  | -34  | 0   | 3   | 0                      | 78      |     |
|                                    |     |                                |                |                               | VS - DIH - 31              | 50  | 30          | 90       | 3                  | -38  | -5  | 3   | 0                      | 87      |     |
|                                    |     |                                |                |                               | VS - DIH - 32              | 50  | 30          | 180      | 3                  | -38  | -10 | 3   | 0                      | 92      |     |
|                                    |     |                                |                |                               | VS - DIH - 33              | 50  | 30          | 90       | 3                  | -38  | -5  | 3   | 0                      | 87      |     |
|                                    |     |                                |                |                               | VS - DIH - 34              | 50  | 25          | 0        | 3                  | -36  | 0   | 3   | 0                      | 80      |     |
|                                    |     |                                |                |                               |                            | 65  |             |          |                    |      |     |     |                        |         |     |
| DIH-P2 (Planned NSR)<br>Night-time | C   | 55                             | 63             | 55                            | VS - DIH - 1               | 39  | 195         | 0        | 3                  | -54  | 0   | 3   | 0                      | 87      |     |
|                                    |     |                                |                |                               | VS - DIH - 2               | 39  | 180         | 0        | 3                  | -53  | 0   | 3   | 0                      | 86      |     |
|                                    |     |                                |                |                               | VS - DIH - 3               | 39  | 170         | 0        | 3                  | -53  | 0   | 3   | 0                      | 86      |     |
|                                    |     |                                |                |                               | VS - DIH - 4               | 39  | 170         | 0        | 3                  | -53  | 0   | 3   | 0                      | 86      |     |
|                                    |     |                                |                |                               | VS - DIH - 5               | 40  | 160         | 0        | 3                  | -52  | 0   | 3   | 0                      | 86      |     |
|                                    |     |                                |                |                               | VS - DIH - 6               | 40  | 145         | 0        | 3                  | -51  | 0   | 3   | 0                      | 85      |     |
|                                    |     |                                |                |                               | VS - DIH - 7               | 40  | 140         | 0        | 3                  | -51  | 0   | 3   | 0                      | 85      |     |
|                                    |     |                                |                |                               | VS - DIH - 8               | 40  | 60          | 90       | 4                  | -44  | -5  | 3   | 0                      | 82      |     |
|                                    |     |                                |                |                               | VS - DIH - 9               | 40  | 55          | 0        | 5                  | -43  | 0   | 3   | 0                      | 75      |     |
|                                    |     |                                |                |                               | VS - DIH - 10              | 40  | 55          | 180      | 6                  | -43  | -10 | 3   | 0                      | 84      |     |
|                                    |     |                                |                |                               | VS - DIH - 11              | 40  | 55          | 0        | 7                  | -43  | 0   | 3   | 0                      | 73      |     |
|                                    |     |                                |                |                               | VS - DIH - 12              | 40  | 50          | 90       | 8                  | -42  | -5  | 3   | 0                      | 76      |     |
|                                    |     |                                |                |                               | VS - DIH - 13              | 40  | 35          | 0        | 9                  | -39  | 0   | 3   | 0                      | 67      |     |
|                                    |     |                                |                |                               | VS - DIH - 14              | 40  | 30          | 0        | 10                 | -38  | 0   | 3   | 0                      | 65      |     |
|                                    |     |                                |                |                               | VS - DIH - 15              | 40  | 30          | 90       | 11                 | -38  | -5  | 3   | 0                      | 69      |     |
|                                    |     |                                |                |                               | VS - DIH - 16              | 40  | 30          | 180      | 3                  | -38  | -10 | 3   | 0                      | 82      |     |
|                                    |     |                                |                |                               | VS - DIH - 17              | 40  | 25          | 90       | 3                  | -36  | -5  | 3   | 0                      | 75      |     |
|                                    |     |                                |                |                               | VS - DIH - 18              | 40  | 25          | 0        | 3                  | -36  | 0   | 3   | 0                      | 70      |     |
|                                    |     |                                |                |                               | VS - DIH - 19              | 40  | 25          | 90       | 3                  | -36  | -5  | 3   | 0                      | 75      |     |
|                                    |     |                                |                |                               | VS - DIH - 20              | 40  | 25          | 180      | 3                  | -36  | -10 | 3   | 0                      | 80      |     |
|                                    |     |                                |                |                               | VS - DIH - 21              | 40  | 20          | 90       | 3                  | -34  | -5  | 3   | 0                      | 73      |     |
|                                    |     |                                |                |                               | VS - DIH - 22              | 40  | 20          | 0        | 3                  | -34  | 0   | 3   | 0                      | 68      |     |
|                                    |     |                                |                |                               | VS - DIH - 23              | 40  | 20          | 90       | 3                  | -34  | -5  | 3   | 0                      | 73      |     |
|                                    |     |                                |                |                               | VS - DIH - 24              | 40  | 20          | 180      | 3                  | -34  | -10 | 3   | 0                      | 78      |     |
|                                    |     |                                |                |                               | VS - DIH - 25              | 40  | 15          | 90       | 3                  | -32  | -5  | 3   | 0                      | 71      |     |
|                                    |     |                                |                |                               | VS - DIH - 26              | 45  | 15          | 0        | 3                  | -32  | 0   | 3   | 0                      | 71      |     |
|                                    |     |                                |                |                               | VS - DIH - 27              | 40  | 25          | 90       | 3                  | -36  | -5  | 3   | 0                      | 75      |     |
|                                    |     |                                |                |                               | VS - DIH - 28              | 40  | 30          | 180      | 3                  | -38  | -10 | 3   | 0                      | 82      |     |
|                                    |     |                                |                |                               | VS - DIH - 29              | 40  | 25          | 90       | 3                  | -36  | -5  | 3   | 0                      | 75      |     |
|                                    |     |                                |                |                               | VS - DIH - 30              | 40  | 20          | 0        | 3                  | -34  | 0   | 3   | 0                      | 68      |     |
|                                    |     |                                |                |                               | VS - DIH - 31              | 40  | 30          | 90       | 3                  | -38  | -5  | 3   | 0                      | 77      |     |
|                                    |     |                                |                |                               | VS - DIH - 32              | 40  | 30          | 180      | 3                  | -38  | -10 | 3   | 0                      | 82      |     |
|                                    |     |                                |                |                               | VS - DIH - 33              | 40  | 30          | 90       | 3                  | -38  | -5  | 3   | 0                      | 77      |     |
|                                    |     |                                |                |                               | VS - DIH - 34              | 40  | 25          | 0        | 3                  | -36  | 0   | 3   | 0                      | 70      |     |
|                                    |     |                                |                |                               |                            | 55  |             |          |                    |      |     |     |                        |         |     |



Project : SCL - Stabling Sidings at Hung Hom Freight Yard  
 Title : Maximum allowable SWL for Ventilation Shaft at DIH

| Noise Sources | Daytime | Night-time |
|---------------|---------|------------|
| VS - DIH - 1  | 83      | 73         |
| VS - DIH - 2  | 82      | 72         |
| VS - DIH - 3  | 82      | 72         |
| VS - DIH - 4  | 78      | 68         |
| VS - DIH - 5  | 82      | 72         |
| VS - DIH - 6  | 84      | 74         |
| VS - DIH - 7  | 82      | 72         |
| VS - DIH - 8  | 92      | 82         |
| VS - DIH - 9  | 85      | 75         |
| VS - DIH - 10 | 94      | 84         |
| VS - DIH - 11 | 83      | 73         |
| VS - DIH - 12 | 86      | 76         |
| VS - DIH - 13 | 77      | 67         |
| VS - DIH - 14 | 75      | 65         |
| VS - DIH - 15 | 79      | 69         |
| VS - DIH - 16 | 92      | 82         |
| VS - DIH - 17 | 85      | 75         |
| VS - DIH - 18 | 80      | 70         |
| VS - DIH - 19 | 85      | 75         |
| VS - DIH - 20 | 90      | 80         |
| VS - DIH - 21 | 83      | 73         |
| VS - DIH - 22 | 78      | 68         |
| VS - DIH - 23 | 83      | 73         |
| VS - DIH - 24 | 88      | 78         |
| VS - DIH - 25 | 81      | 71         |
| VS - DIH - 26 | 81      | 71         |
| VS - DIH - 27 | 85      | 75         |
| VS - DIH - 28 | 92      | 82         |
| VS - DIH - 29 | 85      | 75         |
| VS - DIH - 30 | 78      | 68         |
| VS - DIH - 31 | 87      | 77         |
| VS - DIH - 32 | 92      | 82         |
| VS - DIH - 33 | 87      | 77         |
| VS - DIH - 34 | 80      | 70         |

Project : SCL (HHS)  
 Title : Maximum allowable SWL for Ventilation Louver at HHS

| Receiver                                     | ASR | Noise Levels / Criteria, dB(A) |                |                               | Contributing Noise Sources | Apportioned Criteria, dB(A)<br>(d) - All adds up to (c) | Propagation |          | Corrections, dB(A) |      |     |     | Permissible SWL, dB(A) | Reamrks |     |  |
|--|-----|--------------------------------|----------------|-------------------------------|----------------------------|---|-------------|----------|--------------------|------|-----|-----|------------------------|---------|-----|--|
|  |     | ANL-5 (a)                      | Prevailing (b) | Design (c) = min of (a) & (b) |                            |   | Dist, m     | Dir, deg | Facade             | Dist | Dir | Ton |                        |         | Int |  |
| HUH-10-1 Harbour Front Horizon<br>Daytime    | B   | 60                             | 64             | 60                            | VS - HHS - 1               | 48  | 120         | 0        | 3                  | -50  | 0   | 3   | 0                      | 92      |     |  |
|  |     |                                |                |                               | VS - HHS - 2               | 49  | 95          | 0        | 3                  | -48  | 0   | 3   | 0                      | 91      |     |  |
|  |     |                                |                |                               | VS - HHS - 3               | 49  | 95          | 0        | 3                  | -48  | 0   | 3   | 0                      | 91      |     |  |
|  |     |                                |                |                               | VS - HHS - 4               | 45  | 165         | 0        | 3                  | -52  | 0   | 3   | 0                      | 91      |     |  |
|  |     |                                |                |                               | VS - HHS - 5               | 45  | 200         | 0        | 3                  | -54  | 0   | 3   | 0                      | 93      |     |  |
|  |     |                                |                |                               | VS - HHS - 6               | 45  | 215         | 0        | 3                  | -55  | 0   | 3   | 0                      | 94      |     |  |
|  |     |                                |                |                               | VS - HHS - 7               | 45  | 230         | 0        | 3                  | -55  | 0   | 3   | 0                      | 94      |     |  |
|  |     |                                |                |                               | VS - HHS - 8               | 45  | 250         | 0        | 3                  | -56  | 0   | 3   | 0                      | 95      |     |  |
|  |     |                                |                |                               | VS - HHS - 9               | 45  | 265         | 0        | 3                  | -56  | 0   | 3   | 0                      | 95      |     |  |
|  |     |                                |                |                               | VS - HHS - 10              | 45  | 280         | 0        | 3                  | -57  | 0   | 3   | 0                      | 96      |     |  |
|  |     |                                |                |                               | VS - HHS - 11              | 45  | 300         | 0        | 3                  | -58  | 0   | 3   | 0                      | 97      |     |  |
|  |     |                                |                |                               | VS - HUH - 5*              | 48  | -           | -        | -                  | -    | -   | -   | -                      | -       | 100 |  |
|  |     |                                |                |                               | VS - HUH - 6*              | 48  | -           | -        | -                  | -    | -   | -   | -                      | -       | 100 |  |
|  |     |                                |                |                               | VS - HUH - 7               | 46  | 245         | 0        | 3                  | -56  | 0   | 3   | 0                      | 96      |     |  |
|  |     |                                |                |                               | VS - HUH - 8               | 46  | 240         | 0        | 3                  | -56  | 0   | 3   | 0                      | 96      |     |  |
|  |     |                                |                |                               | VS - HUH - 9               | 48  | 210         | 0        | 3                  | -54  | 0   | 3   | 0                      | 96      |     |  |
|  |     |                                |                |                               | VS - HUH - 10              | 48  | 205         | 0        | 3                  | -54  | 0   | 3   | 0                      | 96      |     |  |
|  |     |                                |                |                               | VS - HUH - 11              | 48  | 195         | 0        | 3                  | -54  | 0   | 3   | 0                      | 96      |     |  |
|  |     |                                |                |                               | VS - HUH - 12              | 49  | 185         | 0        | 3                  | -53  | 0   | 3   | 0                      | 96      |     |  |
|  |     |                                |                |                               | VS - HUH - 13              | 49  | 180         | 0        | 3                  | -53  | 0   | 3   | 0                      | 96      |     |  |
| VS - HUH - 14                                | 49  | 180                            | 0              | 3                             | -53                        | 0   | 3           | 0        | 96                 |      |     |     |                        |         |     |  |
|  |     |                                |                |                               | 60                         |   |             |          |                    |      |     |     |                        |         |     |  |
| HUH-10-1 Harbour Front Horizon<br>Night-time | B   | 50                             | 64             | 50                            | VS - HHS - 1               | 38  | 120         | 0        | 3                  | -50  | 0   | 3   | 0                      | 82      |     |  |
|  |     |                                |                |                               | VS - HHS - 2               | 39  | 95          | 0        | 3                  | -48  | 0   | 3   | 0                      | 81      |     |  |
|  |     |                                |                |                               | VS - HHS - 3               | 39  | 95          | 0        | 3                  | -48  | 0   | 3   | 0                      | 81      |     |  |
|  |     |                                |                |                               | VS - HHS - 4               | 35  | 165         | 0        | 3                  | -52  | 0   | 3   | 0                      | 81      |     |  |
|  |     |                                |                |                               | VS - HHS - 5               | 35  | 200         | 0        | 3                  | -54  | 0   | 3   | 0                      | 83      |     |  |
|  |     |                                |                |                               | VS - HHS - 6               | 35  | 215         | 0        | 3                  | -55  | 0   | 3   | 0                      | 84      |     |  |
|  |     |                                |                |                               | VS - HHS - 7               | 35  | 230         | 0        | 3                  | -55  | 0   | 3   | 0                      | 84      |     |  |
|  |     |                                |                |                               | VS - HHS - 8               | 35  | 250         | 0        | 3                  | -56  | 0   | 3   | 0                      | 85      |     |  |
|  |     |                                |                |                               | VS - HHS - 9               | 35  | 265         | 0        | 3                  | -56  | 0   | 3   | 0                      | 85      |     |  |
|  |     |                                |                |                               | VS - HHS - 10              | 35  | 280         | 0        | 3                  | -57  | 0   | 3   | 0                      | 86      |     |  |
|  |     |                                |                |                               | VS - HHS - 11              | 35  | 300         | 0        | 3                  | -58  | 0   | 3   | 0                      | 87      |     |  |
|  |     |                                |                |                               | VS - HUH - 5*              | 38  | -           | -        | -                  | -    | -   | -   | -                      | -       | 90  |  |
|  |     |                                |                |                               | VS - HUH - 6*              | 38  | -           | -        | -                  | -    | -   | -   | -                      | -       | 90  |  |
|  |     |                                |                |                               | VS - HUH - 7               | 36  | 245         | 0        | 3                  | -56  | 0   | 3   | 0                      | 86      |     |  |
|  |     |                                |                |                               | VS - HUH - 8               | 36  | 240         | 0        | 3                  | -56  | 0   | 3   | 0                      | 86      |     |  |
|  |     |                                |                |                               | VS - HUH - 9               | 38  | 210         | 0        | 3                  | -54  | 0   | 3   | 0                      | 86      |     |  |
|  |     |                                |                |                               | VS - HUH - 10              | 38  | 205         | 0        | 3                  | -54  | 0   | 3   | 0                      | 86      |     |  |
|  |     |                                |                |                               | VS - HUH - 11              | 38  | 195         | 0        | 3                  | -54  | 0   | 3   | 0                      | 86      |     |  |
|  |     |                                |                |                               | VS - HUH - 12              | 39  | 185         | 0        | 3                  | -53  | 0   | 3   | 0                      | 86      |     |  |
|  |     |                                |                |                               | VS - HUH - 13              | 39  | 180         | 0        | 3                  | -53  | 0   | 3   | 0                      | 86      |     |  |
| VS - HUH - 14                                | 39  | 180                            | 0              | 3                             | -53                        | 0   | 3           | 0        | 86                 |      |     |     |                        |         |     |  |
|  |     |                                |                |                               | 50                         |   |             |          |                    |      |     |     |                        |         |     |  |

Project : SCL (HHS)  
 Title : Maximum allowable SWL for Ventilation Louver at HHS

| Receiver                                     | ASR | Noise Levels / Criteria, dB(A) |                |                               | Contributing Noise Sources                      | Apportioned Criteria, dB(A)<br>(d) -All adds up to (c) | Propagation |          | Corrections, dB(A) |              |     |     | Permissible SWL, dB(A) | Reamrks |     |     |   |   |    |
|--|-----|--------------------------------|----------------|-------------------------------|---|--|-------------|----------|--------------------|--------------|-----|-----|------------------------|---------|-----|-----|---|---|----|
|  |     | ANL-5 (a)                      | Prevailing (b) | Design (c) = min of (a) & (b) |   |  | Dist, m     | Dir, deg | Facade             | Dist         | Dir | Ton |                        |         | Int |     |   |   |    |
| HUH-4-1a The Metropolis Residence<br>Daytime | B   | 60                             | 72             | 60                            | VS - HHS - 4                                    | 41   | 225         | 180      | 3                  | -55          | -10 | 3   | 0                      | 100     |     |     |   |   |    |
|  |     |                                |                |                               | VS - HHS - 5                                    | 41   | 195         | 180      | 3                  | -54          | -10 | 3   | 0                      | 99      |     |     |   |   |    |
|  |     |                                |                |                               | VS - HHS - 6                                    | 42   | 180         | 180      | 3                  | -53          | -10 | 3   | 0                      | 99      |     |     |   |   |    |
|  |     |                                |                |                               | VS - HHS - 7                                    | 47   | 165         | 90       | 3                  | -52          | -5  | 3   | 0                      | 98      |     |     |   |   |    |
|  |     |                                |                |                               | VS - HHS - 8                                    | 47   | 145         | 90       | 3                  | -51          | -5  | 3   | 0                      | 97      |     |     |   |   |    |
|  |     |                                |                |                               | VS - HHS - 9                                    | 47   | 130         | 90       | 3                  | -50          | -5  | 3   | 0                      | 96      |     |     |   |   |    |
|  |     |                                |                |                               | VS - HHS - 10                                   | 47   | 115         | 90       | 3                  | -49          | -5  | 3   | 0                      | 95      |     |     |   |   |    |
|  |     |                                |                |                               | VS - HHS - 11                                   | 47   | 100         | 90       | 3                  | -48          | -5  | 3   | 0                      | 94      |     |     |   |   |    |
|  |     |                                |                |                               | VS - HHS - 12                                   | 47   | 75          | 90       | 3                  | -46          | -5  | 3   | 0                      | 92      |     |     |   |   |    |
|  |     |                                |                |                               | VS - HHS - 13                                   | 50   | 50          | 90       | 3                  | -42          | -5  | 3   | 0                      | 91      |     |     |   |   |    |
|  |     |                                |                |                               | VS - HHS - 14                                   | 50   | 45          | 90       | 3                  | -41          | -5  | 3   | 0                      | 90      |     |     |   |   |    |
|  |     |                                |                |                               | VS - HHS - 15                                   | 47   | 90          | 0        | 3                  | -47          | 0   | 3   | 0                      | 88      |     |     |   |   |    |
|  |     |                                |                |                               | VS - HUH - 15                                   | 44   | 175         | 180      | 3                  | -53          | -10 | 3   | 0                      | 101     |     |     |   |   |    |
|  |     |                                |                |                               | VS - HUH - 16                                   | 48   | 165         | 0        | 3                  | -52          | 0   | 3   | 0                      | 94      |     |     |   |   |    |
|  |     |                                |                |                               | VS - HUH - 17                                   | 48   | 160         | 0        | 3                  | -52          | 0   | 3   | 0                      | 94      |     |     |   |   |    |
|  |     |                                |                |                               | VS - HUH - 18                                   | 47   | 150         | 90       | 3                  | -52          | -5  | 3   | 0                      | 98      |     |     |   |   |    |
|  |     |                                |                |                               | VS - HUH - 19                                   | 47   | 170         | 90       | 3                  | -53          | -5  | 3   | 0                      | 99      |     |     |   |   |    |
|  |     |                                |                |                               | VS - HUH - 20                                   | 47   | 130         | 90       | 3                  | -50          | -5  | 3   | 0                      | 96      |     |     |   |   |    |
|  |     |                                |                |                               | VS - HUH - 21                                   | 47   | 130         | 90       | 3                  | -50          | -5  | 3   | 0                      | 96      |     |     |   |   |    |
|  |     |                                |                |                               | VS - HUH - 22                                   | 51   | 120         | 0        | 3                  | -50          | 0   | 3   | 0                      | 95      |     |     |   |   |    |
|  |     |                                |                |                               | VS - HUH - 23                                   | 47   | 115         | 90       | 3                  | -49          | -5  | 3   | 0                      | 95      |     |     |   |   |    |
|  |     |                                |                |                               |   |  |             |          |                    | 60           |     |     |                        |         |     |     |   |   |    |
|  |     |                                |                |                               | HUH-4-1a The Metropolis Residence<br>Night-time | B  | 50          | 65       | 50                 | VS - HHS - 4 | 31  | 225 | 180                    | 3       | -55 | -10 | 3 | 0 | 90 |
| VS - HHS - 5                                 | 31  | 195                            | 180            | 3                             |   |  |             |          |                    | -54          | -10 | 3   | 0                      | 89      |     |     |   |   |    |
| VS - HHS - 6                                 | 32  | 180                            | 180            | 3                             |   |  |             |          |                    | -53          | -10 | 3   | 0                      | 89      |     |     |   |   |    |
| VS - HHS - 7                                 | 37  | 165                            | 90             | 3                             |   |  |             |          |                    | -52          | -5  | 3   | 0                      | 88      |     |     |   |   |    |
| VS - HHS - 8                                 | 37  | 145                            | 90             | 3                             |   |  |             |          |                    | -51          | -5  | 3   | 0                      | 87      |     |     |   |   |    |
| VS - HHS - 9                                 | 37  | 130                            | 90             | 3                             |   |  |             |          |                    | -50          | -5  | 3   | 0                      | 86      |     |     |   |   |    |
| VS - HHS - 10                                | 37  | 115                            | 90             | 3                             |   |  |             |          |                    | -49          | -5  | 3   | 0                      | 85      |     |     |   |   |    |
| VS - HHS - 11                                | 37  | 100                            | 90             | 3                             |   |  |             |          |                    | -48          | -5  | 3   | 0                      | 84      |     |     |   |   |    |
| VS - HHS - 12                                | 37  | 75                             | 90             | 3                             |   |  |             |          |                    | -46          | -5  | 3   | 0                      | 82      |     |     |   |   |    |
| VS - HHS - 13                                | 40  | 50                             | 90             | 3                             |   |  |             |          |                    | -42          | -5  | 3   | 0                      | 81      |     |     |   |   |    |
| VS - HHS - 14                                | 40  | 45                             | 90             | 3                             |   |  |             |          |                    | -41          | -5  | 3   | 0                      | 80      |     |     |   |   |    |
| VS - HHS - 15                                | 37  | 90                             | 0              | 3                             |   |  |             |          |                    | -47          | 0   | 3   | 0                      | 78      |     |     |   |   |    |
| VS - HUH - 15                                | 34  | 175                            | 180            | 3                             |   |  |             |          |                    | -53          | -10 | 3   | 0                      | 91      |     |     |   |   |    |
| VS - HUH - 16                                | 38  | 165                            | 0              | 3                             |   |  |             |          |                    | -52          | 0   | 3   | 0                      | 84      |     |     |   |   |    |
| VS - HUH - 17                                | 38  | 160                            | 0              | 3                             |   |  |             |          |                    | -52          | 0   | 3   | 0                      | 84      |     |     |   |   |    |
| VS - HUH - 18                                | 37  | 150                            | 90             | 3                             |   |  |             |          |                    | -52          | -5  | 3   | 0                      | 88      |     |     |   |   |    |
| VS - HUH - 19                                | 37  | 170                            | 90             | 3                             |   |  |             |          |                    | -53          | -5  | 3   | 0                      | 89      |     |     |   |   |    |
| VS - HUH - 20                                | 37  | 130                            | 90             | 3                             |   |  |             |          |                    | -50          | -5  | 3   | 0                      | 86      |     |     |   |   |    |
| VS - HUH - 21                                | 37  | 130                            | 90             | 3                             |   |  |             |          |                    | -50          | -5  | 3   | 0                      | 86      |     |     |   |   |    |
| VS - HUH - 22                                | 41  | 120                            | 0              | 3                             |   |  |             |          |                    | -50          | 0   | 3   | 0                      | 85      |     |     |   |   |    |
| VS - HUH - 23                                | 37  | 115                            | 90             | 3                             |   |  |             |          |                    | -49          | -5  | 3   | 0                      | 85      |     |     |   |   |    |
|  |     |                                |                |                               |   |  |             |          |                    | 50           |     |     |                        |         |     |     |   |   |    |

Project : SCL (HHS)  
 Title : Maximum allowable SWL for Ventilation Louver at HHS

| Receiver  | ASR | Noise Levels / Criteria, dB(A) |                |                               | Contributing Noise Sources | Apportioned Criteria, dB(A)<br>(d) -All adds up to (c) | Propagation |          | Corrections, dB(A) |      |     |     | Permissible SWL, dB(A) | Reamrks |     |
|---|-----|--------------------------------|----------------|-------------------------------|----------------------------|--|-------------|----------|--------------------|------|-----|-----|------------------------|---------|-----|
|   |     | ANL-5 (a)                      | Prevailing (b) | Design (c = min of (a) & (b)) |                            |  | Dist, m     | Dir, deg | Facade             | Dist | Dir | Ton |                        |         | Int |
| HUH-4-1b The Metropolis Residence<br>Daytime    | B   | 60                             | 72             | 60                            | VS - HHS - 3               | 44   | 275         | 90       | 3                  | -57  | -5  | 3   | 0                      | 100     |     |
|   |     |                                |                |                               | VS - HHS - 4               | 47   | 190         | 90       | 3                  | -54  | -5  | 3   | 0                      | 100     |     |
|   |     |                                |                |                               | VS - HHS - 5               | 47   | 160         | 90       | 3                  | -52  | -5  | 3   | 0                      | 98      |     |
|   |     |                                |                |                               | VS - HHS - 6               | 47   | 140         | 90       | 3                  | -51  | -5  | 3   | 0                      | 97      |     |
|   |     |                                |                |                               | VS - HHS - 7               | 47   | 125         | 90       | 3                  | -50  | -5  | 3   | 0                      | 96      |     |
|   |     |                                |                |                               | VS - HHS - 8               | 47   | 110         | 90       | 3                  | -49  | -5  | 3   | 0                      | 95      |     |
|   |     |                                |                |                               | VS - HHS - 9               | 47   | 95          | 90       | 3                  | -48  | -5  | 3   | 0                      | 94      |     |
|   |     |                                |                |                               | VS - HHS - 10              | 47   | 75          | 90       | 3                  | -46  | -5  | 3   | 0                      | 92      |     |
|   |     |                                |                |                               | VS - HHS - 11              | 47   | 60          | 90       | 3                  | -44  | -5  | 3   | 0                      | 90      |     |
|   |     |                                |                |                               | VS - HHS - 12              | 47   | 35          | 90       | 3                  | -39  | -5  | 3   | 0                      | 85      |     |
|   |     |                                |                |                               | VS - HHS - 13              | 50   | 25          | 90       | 3                  | -36  | -5  | 3   | 0                      | 85      |     |
|   |     |                                |                |                               | VS - HHS - 14              | 47   | 50          | 90       | 3                  | -42  | -5  | 3   | 0                      | 88      |     |
|   |     |                                |                |                               | VS - HHS - 15              | 47   | 125         | 90       | 3                  | -50  | -5  | 3   | 0                      | 96      |     |
|   |     |                                |                |                               | VS - HUH - 15              | 44   | 215         | 180      | 3                  | -55  | -10 | 3   | 0                      | 103     |     |
|   |     |                                |                |                               | VS - HUH - 16              | 47   | 205         | 90       | 3                  | -54  | -5  | 3   | 0                      | 100     |     |
|   |     |                                |                |                               | VS - HUH - 17              | 47   | 195         | 90       | 3                  | -54  | -5  | 3   | 0                      | 100     |     |
|   |     |                                |                |                               | VS - HUH - 18              | 47   | 190         | 90       | 3                  | -54  | -5  | 3   | 0                      | 100     |     |
|   |     |                                |                |                               | VS - HUH - 19              | 47   | 210         | 90       | 3                  | -54  | -5  | 3   | 0                      | 100     |     |
|   |     |                                |                |                               | VS - HUH - 20              | 47   | 170         | 90       | 3                  | -53  | -5  | 3   | 0                      | 99      |     |
|   |     |                                |                |                               | VS - HUH - 21              | 47   | 170         | 90       | 3                  | -53  | -5  | 3   | 0                      | 99      |     |
|   |     |                                |                |                               | VS - HUH - 22              | 47   | 160         | 90       | 3                  | -52  | -5  | 3   | 0                      | 98      |     |
|   |     |                                |                |                               | VS - HUH - 23              | 47   | 150         | 90       | 3                  | -52  | -5  | 3   | 0                      | 98      |     |
|   |     |                                |                |                               |                            |  |             |          |                    | 60   |     |     |                        |         |     |
| HUH-4-1b The Metropolis Residence<br>Night-time | B   | 50                             | 65             | 50                            | VS - HHS - 3               | 34   | 275         | 90       | 3                  | -57  | -5  | 3   | 0                      | 90      |     |
|   |     |                                |                |                               | VS - HHS - 4               | 37   | 190         | 90       | 3                  | -54  | -5  | 3   | 0                      | 90      |     |
|   |     |                                |                |                               | VS - HHS - 5               | 37   | 160         | 90       | 3                  | -52  | -5  | 3   | 0                      | 88      |     |
|   |     |                                |                |                               | VS - HHS - 6               | 37   | 140         | 90       | 3                  | -51  | -5  | 3   | 0                      | 87      |     |
|   |     |                                |                |                               | VS - HHS - 7               | 37   | 125         | 90       | 3                  | -50  | -5  | 3   | 0                      | 86      |     |
|   |     |                                |                |                               | VS - HHS - 8               | 37   | 110         | 90       | 3                  | -49  | -5  | 3   | 0                      | 85      |     |
|   |     |                                |                |                               | VS - HHS - 9               | 37   | 95          | 90       | 3                  | -48  | -5  | 3   | 0                      | 84      |     |
|   |     |                                |                |                               | VS - HHS - 10              | 37   | 75          | 90       | 3                  | -46  | -5  | 3   | 0                      | 82      |     |
|   |     |                                |                |                               | VS - HHS - 11              | 37   | 60          | 90       | 3                  | -44  | -5  | 3   | 0                      | 80      |     |
|   |     |                                |                |                               | VS - HHS - 12              | 37   | 35          | 90       | 3                  | -39  | -5  | 3   | 0                      | 75      |     |
|   |     |                                |                |                               | VS - HHS - 13              | 40   | 25          | 90       | 3                  | -36  | -5  | 3   | 0                      | 75      |     |
|   |     |                                |                |                               | VS - HHS - 14              | 37   | 50          | 90       | 3                  | -42  | -5  | 3   | 0                      | 78      |     |
|   |     |                                |                |                               | VS - HHS - 15              | 37   | 125         | 90       | 3                  | -50  | -5  | 3   | 0                      | 86      |     |
|   |     |                                |                |                               | VS - HUH - 15              | 34   | 215         | 180      | 3                  | -55  | -10 | 3   | 0                      | 93      |     |
|   |     |                                |                |                               | VS - HUH - 16              | 37   | 205         | 90       | 3                  | -54  | -5  | 3   | 0                      | 90      |     |
|   |     |                                |                |                               | VS - HUH - 17              | 37   | 195         | 90       | 3                  | -54  | -5  | 3   | 0                      | 90      |     |
|   |     |                                |                |                               | VS - HUH - 18              | 37   | 190         | 90       | 3                  | -54  | -5  | 3   | 0                      | 90      |     |
|   |     |                                |                |                               | VS - HUH - 19              | 37   | 210         | 90       | 3                  | -54  | -5  | 3   | 0                      | 90      |     |
|   |     |                                |                |                               | VS - HUH - 20              | 37   | 170         | 90       | 3                  | -53  | -5  | 3   | 0                      | 89      |     |
|   |     |                                |                |                               | VS - HUH - 21              | 37   | 170         | 90       | 3                  | -53  | -5  | 3   | 0                      | 89      |     |
|   |     |                                |                |                               | VS - HUH - 22              | 37   | 160         | 90       | 3                  | -52  | -5  | 3   | 0                      | 88      |     |
|   |     |                                |                |                               | VS - HUH - 23              | 37   | 150         | 90       | 3                  | -52  | -5  | 3   | 0                      | 88      |     |
|   |     |                                |                |                               |                            |  |             |          |                    | 50   |     |     |                        |         |     |

| Receiver  | ASR | Noise Levels / Criteria, dB(A) |                |                               | Contributing Noise Sources | Apportioned Criteria, dB(A)<br>(d) -All adds up to (c) | Propagation |          | Corrections, dB(A) |      |     |     | Permissible SWL, dB(A) | Remarks |     |   |     |  |
|---|-----|--------------------------------|----------------|-------------------------------|----------------------------|--|-------------|----------|--------------------|------|-----|-----|------------------------|---------|-----|---|-----|--|
|   |     | ANL-5 (a)                      | Prevailing (b) | Design (c = min of (a) & (b)) |                            |  | Dist, m     | Dir, deg | Facade             | Dist | Dir | Ton |                        |         | Int |   |     |  |
| HUH-4-2a The Metropolis Residence<br>Daytime    | B   | 60                             | 72             | 60                            | VS - HHS - 1               | 45   | 215         | 90       | 3                  | -55  | -5  | 3   | 0                      | 99      |     |   |     |  |
|   |     |                                |                |                               | VS - HHS - 2               | 45   | 185         | 90       | 3                  | -53  | -5  | 3   | 0                      | 97      |     |   |     |  |
|   |     |                                |                |                               | VS - HHS - 3               | 45   | 160         | 90       | 3                  | -52  | -5  | 3   | 0                      | 96      |     |   |     |  |
|   |     |                                |                |                               | VS - HHS - 4               | 45   | 85          | 90       | 3                  | -47  | -5  | 3   | 0                      | 91      |     |   |     |  |
|   |     |                                |                |                               | VS - HHS - 5               | 42   | 60          | 90       | 3                  | -44  | -5  | 3   | 0                      | 85      |     |   |     |  |
|   |     |                                |                |                               | VS - HHS - 6               | 45   | 50          | 90       | 3                  | -42  | -5  | 3   | 0                      | 86      |     |   |     |  |
|   |     |                                |                |                               | VS - HHS - 7               | 45   | 45          | 90       | 3                  | -41  | -5  | 3   | 0                      | 85      |     |   |     |  |
|   |     |                                |                |                               | VS - HHS - 8               | 45   | 45          | 90       | 3                  | -41  | -5  | 3   | 0                      | 85      |     |   |     |  |
|   |     |                                |                |                               | VS - HHS - 9               | 42   | 50          | 180      | 3                  | -42  | -10 | 3   | 0                      | 88      |     |   |     |  |
|   |     |                                |                |                               | VS - HHS - 10              | 42   | 60          | 180      | 3                  | -44  | -10 | 3   | 0                      | 90      |     |   |     |  |
|   |     |                                |                |                               | VS - HHS - 11              | 45   | 75          | 180      | 3                  | -46  | -10 | 3   | 0                      | 95      |     |   |     |  |
|   |     |                                |                |                               | VS - HHS - 12              | 45   | 100         | 180      | 3                  | -48  | -10 | 3   | 0                      | 97      |     |   |     |  |
|   |     |                                |                |                               | VS - HHS - 13              | 45   | 130         | 180      | 3                  | -50  | -10 | 3   | 0                      | 99      |     |   |     |  |
|   |     |                                |                |                               | VS - HHS - 14              | 45   | 165         | 180      | 3                  | -52  | -10 | 3   | 0                      | 101     |     |   |     |  |
|   |     |                                |                |                               | VS - HHS - 15              | 45   | 240         | 180      | 3                  | -56  | -10 | 3   | 0                      | 105     |     |   |     |  |
|   |     |                                |                |                               | VS - HUH - 4*              | 39   | -           | -        | -                  | -    | -   | -   | -                      | -       | -   | - | 101 |  |
|   |     |                                |                |                               | VS - HUH - 5*              | 43   | -           | -        | -                  | -    | -   | -   | -                      | -       | -   | - | 100 |  |
|   |     |                                |                |                               | VS - HUH - 6*              | 43   | -           | -        | -                  | -    | -   | -   | -                      | -       | -   | - | 100 |  |
|   |     |                                |                |                               | VS - HUH - 7               | 45   | 230         | 90       | 3                  | -55  | -5  | 3   | 0                      | 99      |     |   |     |  |
|   |     |                                |                |                               | VS - HUH - 8               | 45   | 225         | 90       | 3                  | -55  | -5  | 3   | 0                      | 99      |     |   |     |  |
|   |     |                                |                |                               | VS - HUH - 9               | 45   | 210         | 90       | 3                  | -54  | -5  | 3   | 0                      | 98      |     |   |     |  |
|   |     |                                |                |                               | VS - HUH - 10              | 45   | 205         | 90       | 3                  | -54  | -5  | 3   | 0                      | 98      |     |   |     |  |
|   |     |                                |                |                               | VS - HUH - 11              | 45   | 200         | 90       | 3                  | -54  | -5  | 3   | 0                      | 98      |     |   |     |  |
| VS - HUH - 12                                   | 45  | 195                            | 90             | 3                             | -54                        | -5   | 3           | 0        | 98                 |      |     |     |                        |         |     |   |     |  |
| VS - HUH - 13                                   | 45  | 195                            | 90             | 3                             | -54                        | -5   | 3           | 0        | 98                 |      |     |     |                        |         |     |   |     |  |
| VS - HUH - 14                                   | 45  | 190                            | 90             | 3                             | -54                        | -5   | 3           | 0        | 98                 |      |     |     |                        |         |     |   |     |  |
| VS - HUH - 15                                   | 43  | 285                            | 90             | 3                             | -57                        | -5   | 3           | 0        | 99                 |      |     |     |                        |         |     |   |     |  |
| VS - HUH - 16                                   | 43  | 280                            | 90             | 3                             | -57                        | -5   | 3           | 0        | 99                 |      |     |     |                        |         |     |   |     |  |
| VS - HUH - 17                                   | 43  | 275                            | 90             | 3                             | -57                        | -5   | 3           | 0        | 99                 |      |     |     |                        |         |     |   |     |  |
| VS - HUH - 18                                   | 43  | 275                            | 90             | 3                             | -57                        | -5   | 3           | 0        | 99                 |      |     |     |                        |         |     |   |     |  |
| VS - HUH - 19                                   | 43  | 295                            | 90             | 3                             | -57                        | -5   | 3           | 0        | 99                 |      |     |     |                        |         |     |   |     |  |
| VS - HUH - 20                                   | 45  | 255                            | 90             | 3                             | -56                        | -5   | 3           | 0        | 100                |      |     |     |                        |         |     |   |     |  |
| VS - HUH - 21                                   | 45  | 255                            | 90             | 3                             | -56                        | -5   | 3           | 0        | 100                |      |     |     |                        |         |     |   |     |  |
| VS - HUH - 22                                   | 45  | 250                            | 0              | 3                             | -56                        | 0  | 3           | 0        | 95                 |      |     |     |                        |         |     |   |     |  |
| VS - HUH - 23                                   | 45  | 235                            | 0              | 3                             | -55                        | 0  | 3           | 0        | 94                 |      |     |     |                        |         |     |   |     |  |
|   |     |                                |                |                               | 60                         |  |             |          |                    |      |     |     |                        |         |     |   |     |  |
| HUH-4-2a The Metropolis Residence<br>Night-time | B   | 50                             | 65             | 50                            | VS - HHS - 1               | 35   | 215         | 90       | 3                  | -55  | -5  | 3   | 0                      | 89      |     |   |     |  |
|   |     |                                |                |                               | VS - HHS - 2               | 35   | 185         | 90       | 3                  | -53  | -5  | 3   | 0                      | 87      |     |   |     |  |
|   |     |                                |                |                               | VS - HHS - 3               | 35   | 160         | 90       | 3                  | -52  | -5  | 3   | 0                      | 86      |     |   |     |  |
|   |     |                                |                |                               | VS - HHS - 4               | 35   | 85          | 90       | 3                  | -47  | -5  | 3   | 0                      | 81      |     |   |     |  |
|   |     |                                |                |                               | VS - HHS - 5               | 32   | 60          | 90       | 3                  | -44  | -5  | 3   | 0                      | 75      |     |   |     |  |
|   |     |                                |                |                               | VS - HHS - 6               | 35   | 50          | 90       | 3                  | -42  | -5  | 3   | 0                      | 76      |     |   |     |  |
|   |     |                                |                |                               | VS - HHS - 7               | 35   | 45          | 90       | 3                  | -41  | -5  | 3   | 0                      | 75      |     |   |     |  |
|   |     |                                |                |                               | VS - HHS - 8               | 35   | 45          | 90       | 3                  | -41  | -5  | 3   | 0                      | 75      |     |   |     |  |
|   |     |                                |                |                               | VS - HHS - 9               | 32   | 50          | 180      | 3                  | -42  | -10 | 3   | 0                      | 78      |     |   |     |  |
|   |     |                                |                |                               | VS - HHS - 10              | 32   | 60          | 180      | 3                  | -44  | -10 | 3   | 0                      | 80      |     |   |     |  |
|   |     |                                |                |                               | VS - HHS - 11              | 35   | 75          | 180      | 3                  | -46  | -10 | 3   | 0                      | 85      |     |   |     |  |
|   |     |                                |                |                               | VS - HHS - 12              | 35   | 100         | 180      | 3                  | -48  | -10 | 3   | 0                      | 87      |     |   |     |  |
|   |     |                                |                |                               | VS - HHS - 13              | 35   | 130         | 180      | 3                  | -50  | -10 | 3   | 0                      | 89      |     |   |     |  |
|   |     |                                |                |                               | VS - HHS - 14              | 35   | 165         | 180      | 3                  | -52  | -10 | 3   | 0                      | 91      |     |   |     |  |
|   |     |                                |                |                               | VS - HHS - 15              | 35   | 240         | 180      | 3                  | -56  | -10 | 3   | 0                      | 95      |     |   |     |  |
|   |     |                                |                |                               | VS - HUH - 4*              | 26   | -           | -        | -                  | -    | -   | -   | -                      | -       | -   | - | 88  |  |
|   |     |                                |                |                               | VS - HUH - 5*              | 33   | -           | -        | -                  | -    | -   | -   | -                      | -       | -   | - | 90  |  |
|   |     |                                |                |                               | VS - HUH - 6*              | 33   | -           | -        | -                  | -    | -   | -   | -                      | -       | -   | - | 90  |  |
|   |     |                                |                |                               | VS - HUH - 7               | 35   | 230         | 90       | 3                  | -55  | -5  | 3   | 0                      | 89      |     |   |     |  |
|   |     |                                |                |                               | VS - HUH - 8               | 35   | 225         | 90       | 3                  | -55  | -5  | 3   | 0                      | 89      |     |   |     |  |
|   |     |                                |                |                               | VS - HUH - 9               | 35   | 210         | 90       | 3                  | -54  | -5  | 3   | 0                      | 88      |     |   |     |  |
|   |     |                                |                |                               | VS - HUH - 10              | 35   | 205         | 90       | 3                  | -54  | -5  | 3   | 0                      | 88      |     |   |     |  |
|   |     |                                |                |                               | VS - HUH - 11              | 35   | 200         | 90       | 3                  | -54  | -5  | 3   | 0                      | 88      |     |   |     |  |
| VS - HUH - 12                                   | 35  | 195                            | 90             | 3                             | -54                        | -5   | 3           | 0        | 88                 |      |     |     |                        |         |     |   |     |  |
| VS - HUH - 13                                   | 35  | 195                            | 90             | 3                             | -54                        | -5   | 3           | 0        | 88                 |      |     |     |                        |         |     |   |     |  |
| VS - HUH - 14                                   | 35  | 190                            | 90             | 3                             | -54                        | -5   | 3           | 0        | 88                 |      |     |     |                        |         |     |   |     |  |
| VS - HUH - 15                                   | 33  | 285                            | 90             | 3                             | -57                        | -5   | 3           | 0        | 89                 |      |     |     |                        |         |     |   |     |  |
| VS - HUH - 16                                   | 33  | 280                            | 90             | 3                             | -57                        | -5   | 3           | 0        | 89                 |      |     |     |                        |         |     |   |     |  |
| VS - HUH - 17                                   | 33  | 275                            | 90             | 3                             | -57                        | -5   | 3           | 0        | 89                 |      |     |     |                        |         |     |   |     |  |
| VS - HUH - 18                                   | 33  | 275                            | 90             | 3                             | -57                        | -5   | 3           | 0        | 89                 |      |     |     |                        |         |     |   |     |  |
| VS - HUH - 19                                   | 33  | 295                            | 90             | 4                             | -57                        | -5   | 3           | 0        | 88                 |      |     |     |                        |         |     |   |     |  |
| VS - HUH - 20                                   | 35  | 255                            | 90             | 5                             | -56                        | -5   | 3           | 0        | 88                 |      |     |     |                        |         |     |   |     |  |
| VS - HUH - 21                                   | 35  | 255                            | 90             | 6                             | -56                        | -5   | 3           | 0        | 87                 |      |     |     |                        |         |     |   |     |  |
| VS - HUH - 22                                   | 35  | 250                            | 0              | 3                             | -56                        | 0  | 3           | 0        | 85                 |      |     |     |                        |         |     |   |     |  |
| VS - HUH - 23                                   | 35  | 235                            | 0              | 3                             | -55                        | 0  | 3           | 0        | 84                 |      |     |     |                        |         |     |   |     |  |
|   |     |                                |                |                               | 50                         |  |             |          |                    |      |     |     |                        |         |     |   |     |  |

| Receiver  | ASR | Noise Levels / Criteria, dB(A) |                |                               | Contributing Noise Sources | Apportioned Criteria, dB(A)<br>(d) - All adds up to (c) | Propagation |          | Corrections, dB(A) |      |     |     |     | Permissible SWL, dB(A) | Remarks |
|---|-----|--------------------------------|----------------|-------------------------------|----------------------------|---|-------------|----------|--------------------|------|-----|-----|-----|------------------------|---------|
|   |     | ANL-5 (a)                      | Prevailing (b) | Design (c = min of (a) & (b)) |                            |   | Dist, m     | Dir, deg | Facade             | Dist | Dir | Ton | Int |                        |         |
| HUH-4-2b The Metropolis Residence<br>Daytime    | B   | 60                             | 72             | 60                            | VS - HHS - 1               | 41  | 255         | 90       | 3                  | -56  | -5  | 3   | 0   | 96                     |         |
|   |     |                                |                |                               | VS - HHS - 2               | 45  | 220         | 90       | 3                  | -55  | -5  | 3   | 0   | 99                     |         |
|   |     |                                |                |                               | VS - HHS - 3               | 45  | 195         | 90       | 3                  | -54  | -5  | 3   | 0   | 98                     |         |
|   |     |                                |                |                               | VS - HHS - 4               | 45  | 110         | 90       | 3                  | -49  | -5  | 3   | 0   | 93                     |         |
|   |     |                                |                |                               | VS - HHS - 5               | 45  | 80          | 90       | 3                  | -46  | -5  | 3   | 0   | 90                     |         |
|   |     |                                |                |                               | VS - HHS - 6               | 45  | 65          | 90       | 3                  | -44  | -5  | 3   | 0   | 88                     |         |
|   |     |                                |                |                               | VS - HHS - 7               | 48  | 50          | 90       | 3                  | -42  | -5  | 3   | 0   | 89                     |         |
|   |     |                                |                |                               | VS - HHS - 8               | 50  | 35          | 90       | 3                  | -39  | -5  | 3   | 0   | 88                     |         |
|   |     |                                |                |                               | VS - HHS - 9               | 51  | 25          | 90       | 3                  | -36  | -5  | 3   | 0   | 86                     |         |
|   |     |                                |                |                               | VS - HHS - 10              | 51  | 25          | 90       | 3                  | -36  | -5  | 3   | 0   | 86                     |         |
|   |     |                                |                |                               | VS - HHS - 11              | 50  | 35          | 90       | 3                  | -39  | -5  | 3   | 0   | 88                     |         |
|   |     |                                |                |                               | VS - HHS - 12              | 48  | 60          | 90       | 3                  | -44  | -5  | 3   | 0   | 91                     |         |
|   |     |                                |                |                               | VS - HHS - 13              | 45  | 90          | 90       | 3                  | -47  | -5  | 3   | 0   | 91                     |         |
|   |     |                                |                |                               | VS - HHS - 14              | 45  | 125         | 90       | 3                  | -50  | -5  | 3   | 0   | 94                     |         |
|   |     |                                |                |                               | VS - HHS - 15              | 45  | 205         | 90       | 3                  | -54  | -5  | 3   | 0   | 98                     |         |
|   |     |                                |                |                               | VS - HUH - 7               | 41  | 270         | 90       | 3                  | -57  | -5  | 3   | 0   | 97                     |         |
|   |     |                                |                |                               | VS - HUH - 8               | 41  | 265         | 90       | 3                  | -56  | -5  | 3   | 0   | 96                     |         |
|   |     |                                |                |                               | VS - HUH - 9               | 41  | 250         | 90       | 3                  | -56  | -5  | 3   | 0   | 96                     |         |
|   |     |                                |                |                               | VS - HUH - 10              | 41  | 245         | 90       | 3                  | -56  | -5  | 3   | 0   | 96                     |         |
|   |     |                                |                |                               | VS - HUH - 11              | 41  | 240         | 90       | 3                  | -56  | -5  | 3   | 0   | 96                     |         |
|   |     |                                |                |                               | VS - HUH - 12              | 41  | 240         | 90       | 3                  | -56  | -5  | 3   | 0   | 96                     |         |
|   |     |                                |                |                               | VS - HUH - 13              | 41  | 235         | 90       | 3                  | -55  | -5  | 3   | 0   | 95                     |         |
|   |     |                                |                |                               | VS - HUH - 14              | 41  | 230         | 90       | 3                  | -55  | -5  | 3   | 0   | 95                     |         |
| VS - HUH - 15                                   | 41  | 270                            | 180            | 3                             | -57                        | -10   | 3           | 0        | 102                |      |     |     |     |                        |         |
| VS - HUH - 16                                   | 41  | 265                            | 90             | 3                             | -56                        | -5  | 3           | 0        | 96                 |      |     |     |     |                        |         |
| VS - HUH - 17                                   | 41  | 255                            | 90             | 3                             | -56                        | -5  | 3           | 0        | 96                 |      |     |     |     |                        |         |
| VS - HUH - 18                                   | 41  | 255                            | 90             | 3                             | -56                        | -5  | 3           | 0        | 96                 |      |     |     |     |                        |         |
| VS - HUH - 19                                   | 41  | 275                            | 90             | 3                             | -57                        | -5  | 3           | 0        | 97                 |      |     |     |     |                        |         |
| VS - HUH - 20                                   | 41  | 235                            | 90             | 3                             | -55                        | -5  | 3           | 0        | 95                 |      |     |     |     |                        |         |
| VS - HUH - 21                                   | 45  | 235                            | 90             | 3                             | -55                        | -5  | 3           | 0        | 99                 |      |     |     |     |                        |         |
| VS - HUH - 22                                   | 45  | 225                            | 90             | 3                             | -55                        | -5  | 3           | 0        | 99                 |      |     |     |     |                        |         |
| VS - HUH - 23                                   | 45  | 215                            | 90             | 3                             | -55                        | -5  | 3           | 0        | 99                 |      |     |     |     |                        |         |
|   |     |                                |                |                               | 60                         |   |             |          |                    |      |     |     |     |                        |         |
| HUH-4-2b The Metropolis Residence<br>Night-time | B   | 50                             | 65             | 50                            | VS - HHS - 1               | 31  | 255         | 90       | 3                  | -56  | -5  | 3   | 0   | 86                     |         |
|   |     |                                |                |                               | VS - HHS - 2               | 35  | 220         | 90       | 3                  | -55  | -5  | 3   | 0   | 89                     |         |
|   |     |                                |                |                               | VS - HHS - 3               | 35  | 195         | 90       | 3                  | -54  | -5  | 3   | 0   | 88                     |         |
|   |     |                                |                |                               | VS - HHS - 4               | 35  | 110         | 90       | 3                  | -49  | -5  | 3   | 0   | 83                     |         |
|   |     |                                |                |                               | VS - HHS - 5               | 35  | 80          | 90       | 3                  | -46  | -5  | 3   | 0   | 80                     |         |
|   |     |                                |                |                               | VS - HHS - 6               | 35  | 65          | 90       | 3                  | -44  | -5  | 3   | 0   | 78                     |         |
|   |     |                                |                |                               | VS - HHS - 7               | 38  | 50          | 90       | 3                  | -42  | -5  | 3   | 0   | 79                     |         |
|   |     |                                |                |                               | VS - HHS - 8               | 40  | 35          | 90       | 3                  | -39  | -5  | 3   | 0   | 78                     |         |
|   |     |                                |                |                               | VS - HHS - 9               | 41  | 25          | 90       | 3                  | -36  | -5  | 3   | 0   | 76                     |         |
|   |     |                                |                |                               | VS - HHS - 10              | 41  | 25          | 90       | 3                  | -36  | -5  | 3   | 0   | 76                     |         |
|   |     |                                |                |                               | VS - HHS - 11              | 40  | 35          | 90       | 3                  | -39  | -5  | 3   | 0   | 78                     |         |
|   |     |                                |                |                               | VS - HHS - 12              | 38  | 60          | 90       | 3                  | -44  | -5  | 3   | 0   | 81                     |         |
|   |     |                                |                |                               | VS - HHS - 13              | 35  | 90          | 90       | 3                  | -47  | -5  | 3   | 0   | 81                     |         |
|   |     |                                |                |                               | VS - HHS - 14              | 35  | 125         | 90       | 3                  | -50  | -5  | 3   | 0   | 84                     |         |
|   |     |                                |                |                               | VS - HHS - 15              | 35  | 205         | 90       | 3                  | -54  | -5  | 3   | 0   | 88                     |         |
|   |     |                                |                |                               | VS - HUH - 7               | 31  | 270         | 90       | 3                  | -57  | -5  | 3   | 0   | 87                     |         |
|   |     |                                |                |                               | VS - HUH - 8               | 31  | 265         | 90       | 3                  | -56  | -5  | 3   | 0   | 86                     |         |
|   |     |                                |                |                               | VS - HUH - 9               | 31  | 250         | 90       | 3                  | -56  | -5  | 3   | 0   | 86                     |         |
|   |     |                                |                |                               | VS - HUH - 10              | 31  | 245         | 90       | 3                  | -56  | -5  | 3   | 0   | 86                     |         |
|   |     |                                |                |                               | VS - HUH - 11              | 31  | 240         | 90       | 3                  | -56  | -5  | 3   | 0   | 86                     |         |
|   |     |                                |                |                               | VS - HUH - 12              | 31  | 240         | 90       | 3                  | -56  | -5  | 3   | 0   | 86                     |         |
|   |     |                                |                |                               | VS - HUH - 13              | 31  | 235         | 90       | 3                  | -55  | -5  | 3   | 0   | 85                     |         |
|   |     |                                |                |                               | VS - HUH - 14              | 31  | 230         | 90       | 3                  | -55  | -5  | 3   | 0   | 85                     |         |
| VS - HUH - 15                                   | 31  | 270                            | 180            | 3                             | -57                        | -10   | 3           | 0        | 92                 |      |     |     |     |                        |         |
| VS - HUH - 16                                   | 31  | 265                            | 90             | 3                             | -56                        | -5  | 3           | 0        | 86                 |      |     |     |     |                        |         |
| VS - HUH - 17                                   | 31  | 255                            | 90             | 3                             | -56                        | -5  | 3           | 0        | 86                 |      |     |     |     |                        |         |
| VS - HUH - 18                                   | 31  | 255                            | 90             | 3                             | -56                        | -5  | 3           | 0        | 86                 |      |     |     |     |                        |         |
| VS - HUH - 19                                   | 31  | 275                            | 90             | 3                             | -57                        | -5  | 3           | 0        | 87                 |      |     |     |     |                        |         |
| VS - HUH - 20                                   | 31  | 235                            | 90             | 3                             | -55                        | -5  | 3           | 0        | 85                 |      |     |     |     |                        |         |
| VS - HUH - 21                                   | 35  | 235                            | 90             | 3                             | -55                        | -5  | 3           | 0        | 89                 |      |     |     |     |                        |         |
| VS - HUH - 22                                   | 35  | 225                            | 90             | 3                             | -55                        | -5  | 3           | 0        | 89                 |      |     |     |     |                        |         |
| VS - HUH - 23                                   | 35  | 215                            | 90             | 3                             | -55                        | -5  | 3           | 0        | 89                 |      |     |     |     |                        |         |
|   |     |                                |                |                               | 50                         |   |             |          |                    |      |     |     |     |                        |         |

| Receiver                                   | ASR | Noise Levels / Criteria, dB(A) |                |                               | Contributing Noise Sources                    | Apportioned Criteria, dB(A)<br>(d) - All adds up to (c) | Propagation |          | Corrections, dB(A) |              |     |     | Permissible SWL, dB(A) | Reamrks |     |   |   |   |    |  |
|--|-----|--------------------------------|----------------|-------------------------------|---|---|-------------|----------|--------------------|--------------|-----|-----|------------------------|---------|-----|---|---|---|----|--|
|  |     | ANL-5 (a)                      | Prevailing (b) | Design (c) = min of (a) & (b) |   |   | Dist, m     | Dir, deg | Facade             | Dist         | Dir | Ton |                        |         | Int |   |   |   |    |  |
| HUH-3-1 Royal Peninsula Block 2<br>Daytime | C   | 65                             | 68             | 65                            | VS - HHS - 8                                  | 53  | 300         | 0        | 3                  | -58          | 0   | 3   | 0                      | 105     |     |   |   |   |    |  |
|  |     |                                |                |                               | VS - HHS - 9                                  | 53  | 285         | 0        | 3                  | -57          | 0   | 3   | 0                      | 104     |     |   |   |   |    |  |
|  |     |                                |                |                               | VS - HHS - 10                                 | 53  | 265         | 0        | 3                  | -56          | 0   | 3   | 0                      | 103     |     |   |   |   |    |  |
|  |     |                                |                |                               | VS - HHS - 11                                 | 53  | 250         | 0        | 3                  | -56          | 0   | 3   | 0                      | 103     |     |   |   |   |    |  |
|  |     |                                |                |                               | VS - HHS - 12                                 | 53  | 215         | 0        | 3                  | -55          | 0   | 3   | 0                      | 102     |     |   |   |   |    |  |
|  |     |                                |                |                               | VS - HHS - 13                                 | 53  | 185         | 0        | 3                  | -53          | 0   | 3   | 0                      | 100     |     |   |   |   |    |  |
|  |     |                                |                |                               | VS - HHS - 14                                 | 53  | 150         | 0        | 3                  | -52          | 0   | 3   | 0                      | 99      |     |   |   |   |    |  |
|  |     |                                |                |                               | VS - HHS - 15                                 | 53  | 85          | 0        | 3                  | -47          | 0   | 3   | 0                      | 94      |     |   |   |   |    |  |
|  |     |                                |                |                               | VS - HUH - 15                                 | 53  | 195         | 90       | 3                  | -54          | -5  | 3   | 0                      | 106     |     |   |   |   |    |  |
|  |     |                                |                |                               | VS - HUH - 16                                 | 53  | 180         | 0        | 3                  | -53          | 0   | 3   | 0                      | 100     |     |   |   |   |    |  |
|  |     |                                |                |                               | VS - HUH - 17                                 | 53  | 180         | 0        | 3                  | -53          | 0   | 3   | 0                      | 100     |     |   |   |   |    |  |
|  |     |                                |                |                               | VS - HUH - 18                                 | 53  | 165         | 0        | 3                  | -52          | 0   | 3   | 0                      | 99      |     |   |   |   |    |  |
|  |     |                                |                |                               | VS - HUH - 19                                 | 53  | 155         | 0        | 3                  | -52          | 0   | 3   | 0                      | 99      |     |   |   |   |    |  |
|  |     |                                |                |                               | VS - HUH - 20                                 | 53  | 160         | 0        | 3                  | -52          | 0   | 3   | 0                      | 99      |     |   |   |   |    |  |
|  |     |                                |                |                               | VS - HUH - 21                                 | 53  | 150         | 0        | 3                  | -52          | 0   | 3   | 0                      | 99      |     |   |   |   |    |  |
|  |     |                                |                |                               | VS - HUH - 22                                 | 53  | 150         | 0        | 3                  | -52          | 0   | 3   | 0                      | 99      |     |   |   |   |    |  |
|  |     |                                |                |                               | VS - HUH - 23                                 | 53  | 155         | 0        | 3                  | -52          | 0   | 3   | 0                      | 99      |     |   |   |   |    |  |
|  |     |                                |                |                               |   |   |             |          |                    | 65           |     |     |                        |         |     |   |   |   |    |  |
|  |     |                                |                |                               | HUH-3-1 Royal Peninsula Block 2<br>Night-time | C   | 55          | 62       | 55                 | VS - HHS - 8 | 43  | 300 | 0                      | 3       | -58 | 0 | 3 | 0 | 95 |  |
|  |     |                                |                |                               |   |   |             |          |                    | VS - HHS - 9 | 43  | 285 | 0                      | 3       | -57 | 0 | 3 | 0 | 94 |  |
| VS - HHS - 10                              | 43  | 265                            | 0              | 3                             |   |   |             |          |                    | -56          | 0   | 3   | 0                      | 93      |     |   |   |   |    |  |
| VS - HHS - 11                              | 43  | 250                            | 0              | 3                             |   |   |             |          |                    | -56          | 0   | 3   | 0                      | 93      |     |   |   |   |    |  |
| VS - HHS - 12                              | 43  | 215                            | 0              | 3                             |   |   |             |          |                    | -55          | 0   | 3   | 0                      | 92      |     |   |   |   |    |  |
| VS - HHS - 13                              | 43  | 185                            | 0              | 3                             |   |   |             |          |                    | -53          | 0   | 3   | 0                      | 90      |     |   |   |   |    |  |
| VS - HHS - 14                              | 43  | 150                            | 0              | 3                             |   |   |             |          |                    | -52          | 0   | 3   | 0                      | 89      |     |   |   |   |    |  |
| VS - HHS - 15                              | 43  | 85                             | 0              | 3                             |   |   |             |          |                    | -47          | 0   | 3   | 0                      | 84      |     |   |   |   |    |  |
| VS - HUH - 15                              | 43  | 195                            | 90             | 3                             |   |   |             |          |                    | -54          | -5  | 3   | 0                      | 96      |     |   |   |   |    |  |
| VS - HUH - 16                              | 43  | 180                            | 0              | 3                             |   |   |             |          |                    | -53          | 0   | 3   | 0                      | 90      |     |   |   |   |    |  |
| VS - HUH - 17                              | 43  | 180                            | 0              | 3                             |   |   |             |          |                    | -53          | 0   | 3   | 0                      | 90      |     |   |   |   |    |  |
| VS - HUH - 18                              | 43  | 165                            | 0              | 3                             |   |   |             |          |                    | -52          | 0   | 3   | 0                      | 89      |     |   |   |   |    |  |
| VS - HUH - 19                              | 43  | 155                            | 0              | 3                             |   |   |             |          |                    | -52          | 0   | 3   | 0                      | 89      |     |   |   |   |    |  |
| VS - HUH - 20                              | 43  | 160                            | 0              | 3                             |   |   |             |          |                    | -52          | 0   | 3   | 0                      | 89      |     |   |   |   |    |  |
| VS - HUH - 21                              | 43  | 150                            | 0              | 3                             |   |   |             |          |                    | -52          | 0   | 3   | 0                      | 89      |     |   |   |   |    |  |
| VS - HUH - 22                              | 43  | 150                            | 0              | 3                             |   |   |             |          |                    | -52          | 0   | 3   | 0                      | 89      |     |   |   |   |    |  |
| VS - HUH - 23                              | 43  | 155                            | 0              | 3                             |   |   |             |          |                    | -52          | 0   | 3   | 0                      | 89      |     |   |   |   |    |  |
|  |     |                                |                |                               |   |   |             |          |                    | 55           |     |     |                        |         |     |   |   |   |    |  |

| Receiver                                 | ASR | Noise Levels / Criteria, dB(A) |                |                               | Contributing Noise Sources                  | Apportioned Criteria, dB(A)<br>(d) - All adds up to (c) | Propagation |          | Corrections, dB(A) |              |     |     | Permissible SWL, dB(A) | Reamrks |     |   |   |   |    |  |
|--|-----|--------------------------------|----------------|-------------------------------|---|---|-------------|----------|--------------------|--------------|-----|-----|------------------------|---------|-----|---|---|---|----|--|
|  |     | ANL-5 (a)                      | Prevailing (b) | Design (c) = min of (a) & (b) |   |   | Dist, m     | Dir, deg | Facade             | Dist         | Dir | Ton |                        |         | Int |   |   |   |    |  |
| HUH-11-1 PolyU Student Hostel<br>Daytime | C   | 65                             | 65             | 65                            | VS - HHS - 4                                | 52  | 300         | 0        | 3                  | -58          | 0   | 3   | 0                      | 104     |     |   |   |   |    |  |
|  |     |                                |                |                               | VS - HHS - 5                                | 52  | 270         | 0        | 3                  | -57          | 0   | 3   | 0                      | 103     |     |   |   |   |    |  |
|  |     |                                |                |                               | VS - HHS - 6                                | 52  | 250         | 0        | 3                  | -56          | 0   | 3   | 0                      | 102     |     |   |   |   |    |  |
|  |     |                                |                |                               | VS - HHS - 7                                | 52  | 240         | 0        | 3                  | -56          | 0   | 3   | 0                      | 102     |     |   |   |   |    |  |
|  |     |                                |                |                               | VS - HHS - 8                                | 52  | 225         | 0        | 3                  | -55          | 0   | 3   | 0                      | 101     |     |   |   |   |    |  |
|  |     |                                |                |                               | VS - HHS - 9                                | 52  | 210         | 0        | 3                  | -54          | 0   | 3   | 0                      | 100     |     |   |   |   |    |  |
|  |     |                                |                |                               | VS - HHS - 10                               | 52  | 195         | 0        | 3                  | -54          | 0   | 3   | 0                      | 100     |     |   |   |   |    |  |
|  |     |                                |                |                               | VS - HHS - 11                               | 52  | 185         | 0        | 3                  | -53          | 0   | 3   | 0                      | 99      |     |   |   |   |    |  |
|  |     |                                |                |                               | VS - HHS - 12                               | 52  | 160         | 0        | 3                  | -52          | 0   | 3   | 0                      | 98      |     |   |   |   |    |  |
|  |     |                                |                |                               | VS - HHS - 13                               | 52  | 140         | 0        | 3                  | -51          | 0   | 3   | 0                      | 97      |     |   |   |   |    |  |
|  |     |                                |                |                               | VS - HHS - 14                               | 52  | 125         | 0        | 3                  | -50          | 0   | 3   | 0                      | 96      |     |   |   |   |    |  |
|  |     |                                |                |                               | VS - HHS - 15                               | 52  | 170         | 0        | 3                  | -53          | 0   | 3   | 0                      | 99      |     |   |   |   |    |  |
|  |     |                                |                |                               | VS - HUH - 16                               | 52  | 295         | 0        | 3                  | -57          | 0   | 3   | 0                      | 103     |     |   |   |   |    |  |
|  |     |                                |                |                               | VS - HUH - 17                               | 52  | 295         | 0        | 3                  | -57          | 0   | 3   | 0                      | 103     |     |   |   |   |    |  |
|  |     |                                |                |                               | VS - HUH - 18                               | 52  | 280         | 0        | 3                  | -57          | 0   | 3   | 0                      | 103     |     |   |   |   |    |  |
|  |     |                                |                |                               | VS - HUH - 19                               | 52  | 285         | 0        | 3                  | -57          | 0   | 3   | 0                      | 103     |     |   |   |   |    |  |
|  |     |                                |                |                               | VS - HUH - 20                               | 52  | 260         | 0        | 3                  | -56          | 0   | 3   | 0                      | 102     |     |   |   |   |    |  |
|  |     |                                |                |                               | VS - HUH - 21                               | 52  | 260         | 0        | 3                  | -56          | 0   | 3   | 0                      | 102     |     |   |   |   |    |  |
|  |     |                                |                |                               | VS - HUH - 22                               | 52  | 250         | 0        | 3                  | -56          | 0   | 3   | 0                      | 102     |     |   |   |   |    |  |
|  |     |                                |                |                               | VS - HUH - 23                               | 52  | 250         | 0        | 3                  | -56          | 0   | 3   | 0                      | 102     |     |   |   |   |    |  |
|  |     |                                |                |                               |   |   |             |          |                    | 65           |     |     |                        |         |     |   |   |   |    |  |
|  |     |                                |                |                               | HUH-11-1 PolyU Student Hostel<br>Night-time | C   | 55          | 61       | 55                 | VS - HHS - 4 | 42  | 300 | 0                      | 3       | -58 | 0 | 3 | 0 | 94 |  |
|  |     |                                |                |                               |   |   |             |          |                    | VS - HHS - 5 | 42  | 270 | 0                      | 3       | -57 | 0 | 3 | 0 | 93 |  |
| VS - HHS - 6                             | 42  | 250                            | 0              | 3                             |   |   |             |          |                    | -56          | 0   | 3   | 0                      | 92      |     |   |   |   |    |  |
| VS - HHS - 7                             | 42  | 240                            | 0              | 3                             |   |   |             |          |                    | -56          | 0   | 3   | 0                      | 92      |     |   |   |   |    |  |
| VS - HHS - 8                             | 42  | 225                            | 0              | 3                             |   |   |             |          |                    | -55          | 0   | 3   | 0                      | 91      |     |   |   |   |    |  |
| VS - HHS - 9                             | 42  | 210                            | 0              | 3                             |   |   |             |          |                    | -54          | 0   | 3   | 0                      | 90      |     |   |   |   |    |  |
| VS - HHS - 10                            | 42  | 195                            | 0              | 3                             |   |   |             |          |                    | -54          | 0   | 3   | 0                      | 90      |     |   |   |   |    |  |
| VS - HHS - 11                            | 42  | 185                            | 0              | 3                             |   |   |             |          |                    | -53          | 0   | 3   | 0                      | 89      |     |   |   |   |    |  |
| VS - HHS - 12                            | 42  | 160                            | 0              | 3                             |   |   |             |          |                    | -52          | 0   | 3   | 0                      | 88      |     |   |   |   |    |  |
| VS - HHS - 13                            | 42  | 140                            | 0              | 3                             |   |   |             |          |                    | -51          | 0   | 3   | 0                      | 87      |     |   |   |   |    |  |
| VS - HHS - 14                            | 42  | 125                            | 0              | 3                             |   |   |             |          |                    | -50          | 0   | 3   | 0                      | 86      |     |   |   |   |    |  |
| VS - HHS - 15                            | 42  | 170                            | 0              | 3                             |   |   |             |          |                    | -53          | 0   | 3   | 0                      | 89      |     |   |   |   |    |  |
| VS - HUH - 16                            | 42  | 295                            | 0              | 3                             |   |   |             |          |                    | -57          | 0   | 3   | 0                      | 93      |     |   |   |   |    |  |
| VS - HUH - 17                            | 42  | 295                            | 0              | 3                             |   |   |             |          |                    | -57          | 0   | 3   | 0                      | 93      |     |   |   |   |    |  |
| VS - HUH - 18                            | 42  | 280                            | 0              | 3                             |   |   |             |          |                    | -57          | 0   | 3   | 0                      | 93      |     |   |   |   |    |  |
| VS - HUH - 19                            | 42  | 285                            | 0              | 3                             |   |   |             |          |                    | -57          | 0   | 3   | 0                      | 93      |     |   |   |   |    |  |
| VS - HUH - 20                            | 42  | 260                            | 0              | 3                             |   |   |             |          |                    | -56          | 0   | 3   | 0                      | 92      |     |   |   |   |    |  |
| VS - HUH - 21                            | 42  | 260                            | 0              | 3                             |   |   |             |          |                    | -56          | 0   | 3   | 0                      | 92      |     |   |   |   |    |  |
| VS - HUH - 22                            | 42  | 250                            | 0              | 3                             |   |   |             |          |                    | -56          | 0   | 3   | 0                      | 92      |     |   |   |   |    |  |
| VS - HUH - 23                            | 42  | 250                            | 0              | 3                             |   |   |             |          |                    | -56          | 0   | 3   | 0                      | 92      |     |   |   |   |    |  |
|  |     |                                |                |                               |   |   |             |          |                    | 55           |     |     |                        |         |     |   |   |   |    |  |



Project : SCL (HHS)  
 Title : Maximum allowable SWL for Ventilation Louver at HHS

| Receiver                                    | ASR | Noise Levels / Criteria, dB(A) |                |                               | Contributing Noise Sources                     | Apportioned Criteria, dB(A)<br>(d) - All adds up to (c) | Propagation |          | Corrections, dB(A) |              |     |     | Permissible SWL, dB(A) | Remarks |     |   |   |   |    |  |
|---|-----|--------------------------------|----------------|-------------------------------|--|---|-------------|----------|--------------------|--------------|-----|-----|------------------------|---------|-----|---|---|---|----|--|
|   |     | ANL-5 (a)                      | Prevailing (b) | Design (c) = min of (a) & (b) |  |   | Dist, m     | Dir, deg | Facade             | Dist         | Dir | Ton |                        |         | Int |   |   |   |    |  |
| HUH-12-1 Harbour Place (Block 6)<br>Daytime | C   | 65                             | -              | 65                            | VS - HHS - 4                                   | 54  | 280         | 0        | 3                  | -57          | 0   | 3   | 0                      | 105     |     |   |   |   |    |  |
|   |     |                                |                |                               | VS - HHS - 5                                   | 54  | 260         | 0        | 3                  | -56          | 0   | 3   | 0                      | 104     |     |   |   |   |    |  |
|   |     |                                |                |                               | VS - HHS - 6                                   | 54  | 245         | 0        | 3                  | -56          | 0   | 3   | 0                      | 104     |     |   |   |   |    |  |
|   |     |                                |                |                               | VS - HHS - 7                                   | 54  | 235         | 0        | 3                  | -55          | 0   | 3   | 0                      | 103     |     |   |   |   |    |  |
|   |     |                                |                |                               | VS - HHS - 8                                   | 54  | 225         | 0        | 3                  | -55          | 0   | 3   | 0                      | 103     |     |   |   |   |    |  |
|   |     |                                |                |                               | VS - HHS - 9                                   | 54  | 215         | 0        | 3                  | -55          | 0   | 3   | 0                      | 103     |     |   |   |   |    |  |
|   |     |                                |                |                               | VS - HHS - 10                                  | 54  | 205         | 0        | 3                  | -54          | 0   | 3   | 0                      | 102     |     |   |   |   |    |  |
|   |     |                                |                |                               | VS - HHS - 11                                  | 54  | 200         | 0        | 3                  | -54          | 0   | 3   | 0                      | 102     |     |   |   |   |    |  |
|   |     |                                |                |                               | VS - HHS - 12                                  | 54  | 190         | 0        | 3                  | -54          | 0   | 3   | 0                      | 102     |     |   |   |   |    |  |
|   |     |                                |                |                               | VS - HHS - 13                                  | 54  | 180         | 0        | 3                  | -53          | 0   | 3   | 0                      | 101     |     |   |   |   |    |  |
|   |     |                                |                |                               | VS - HHS - 14                                  | 54  | 180         | 0        | 3                  | -53          | 0   | 3   | 0                      | 101     |     |   |   |   |    |  |
|   |     |                                |                |                               | VS - HHS - 15                                  | 54  | 250         | 0        | 3                  | -56          | 0   | 3   | 0                      | 104     |     |   |   |   |    |  |
|   |     |                                |                |                               |  |   |             |          |                    | 65           |     |     |                        |         |     |   |   |   |    |  |
|   |     |                                |                |                               | HUH-12-1 Harbour Place (Block 6)<br>Night-time | C   | 55          | -        | 55                 | VS - HHS - 4 | 44  | 280 | 0                      | 3       | -57 | 0 | 3 | 0 | 95 |  |
|   |     |                                |                |                               |  |   |             |          |                    | VS - HHS - 5 | 44  | 260 | 0                      | 3       | -56 | 0 | 3 | 0 | 94 |  |
| VS - HHS - 6                                | 44  | 245                            | 0              | 3                             |  |   |             |          |                    | -56          | 0   | 3   | 0                      | 94      |     |   |   |   |    |  |
| VS - HHS - 7                                | 44  | 235                            | 0              | 3                             |  |   |             |          |                    | -55          | 0   | 3   | 0                      | 93      |     |   |   |   |    |  |
| VS - HHS - 8                                | 44  | 225                            | 0              | 3                             |  |   |             |          |                    | -55          | 0   | 3   | 0                      | 93      |     |   |   |   |    |  |
| VS - HHS - 9                                | 44  | 215                            | 0              | 3                             |  |   |             |          |                    | -55          | 0   | 3   | 0                      | 93      |     |   |   |   |    |  |
| VS - HHS - 10                               | 44  | 205                            | 0              | 3                             |  |   |             |          |                    | -54          | 0   | 3   | 0                      | 92      |     |   |   |   |    |  |
| VS - HHS - 11                               | 44  | 200                            | 0              | 3                             |  |   |             |          |                    | -54          | 0   | 3   | 0                      | 92      |     |   |   |   |    |  |
| VS - HHS - 12                               | 44  | 190                            | 0              | 3                             |  |   |             |          |                    | -54          | 0   | 3   | 0                      | 92      |     |   |   |   |    |  |
| VS - HHS - 13                               | 44  | 180                            | 0              | 3                             |  |   |             |          |                    | -53          | 0   | 3   | 0                      | 91      |     |   |   |   |    |  |
| VS - HHS - 14                               | 44  | 180                            | 0              | 3                             |  |   |             |          |                    | -53          | 0   | 3   | 0                      | 91      |     |   |   |   |    |  |
| VS - HHS - 15                               | 44  | 250                            | 0              | 3                             |  |   |             |          |                    | -56          | 0   | 3   | 0                      | 94      |     |   |   |   |    |  |
|   |     |                                |                |                               |  |   |             |          |                    | 55           |     |     |                        |         |     |   |   |   |    |  |

Remark: [\*] The SWL & Apportioned Criteria for VS - HUH - 2 to VS - HUH - 6 are extracted from NSL EIA Report.

Project : SCL - Stabling Sidings at Hung Hom Freight Yard  
 Title : Maximum allowable SWL for Ventilation Louver at HHS

| Noise Sources | Daytime | Night-time |
|---------------|---------|------------|
| VS - HHS - 1  | 92      | 82         |
| VS - HHS - 2  | 91      | 81         |
| VS - HHS - 3  | 91      | 81         |
| VS - HHS - 4  | 91      | 81         |
| VS - HHS - 5  | 85      | 75         |
| VS - HHS - 6  | 86      | 76         |
| VS - HHS - 7  | 85      | 75         |
| VS - HHS - 8  | 85      | 75         |
| VS - HHS - 9  | 86      | 76         |
| VS - HHS - 10 | 86      | 76         |
| VS - HHS - 11 | 88      | 78         |
| VS - HHS - 12 | 85      | 75         |
| VS - HHS - 13 | 85      | 75         |
| VS - HHS - 14 | 88      | 78         |
| VS - HHS - 15 | 88      | 78         |
| VS - HUH - 7  | 96      | 86         |
| VS - HUH - 8  | 96      | 86         |
| VS - HUH - 9  | 96      | 86         |
| VS - HUH - 10 | 96      | 86         |
| VS - HUH - 11 | 96      | 86         |
| VS - HUH - 12 | 96      | 86         |
| VS - HUH - 13 | 95      | 85         |
| VS - HUH - 14 | 95      | 85         |
| VS - HUH - 15 | 99      | 89         |
| VS - HUH - 16 | 94      | 84         |
| VS - HUH - 17 | 94      | 84         |
| VS - HUH - 18 | 96      | 86         |
| VS - HUH - 19 | 97      | 87         |
| VS - HUH - 20 | 95      | 85         |
| VS - HUH - 21 | 96      | 86         |
| VS - HUH - 22 | 95      | 85         |
| VS - HUH - 23 | 94      | 84         |

| Receiver                                 | ASR | Noise Levels / Criteria, dB(A) |                |                               | Contributing Noise Sources | Apportioned Criteria, dB(A)<br>(d) - All adds up to (c) | Propagation |          |        | Corrections, dB(A) |     |     |     | Permissible SWL, dB(A) | Remarks |
|--|-----|--------------------------------|----------------|-------------------------------|----------------------------|---|-------------|----------|--------|--------------------|-----|-----|-----|------------------------|---------|
|  |     | ANL-5 (a)                      | Prevailing (b) | Design (c) = min of (a) & (b) |                            |   | Dist, m     | Dir, deg | Facade | Dist               | Dir | Ton | Int |                        |         |
| KAT-P1-1 (Planned NSR)<br><br>Daytime    | B   | 60                             | 70             | 60                            | VS - KAT - 1 - 1           | 47  | 205         | 0        | 3      | -54                | 0   | 3   | 0   | 95                     |         |
|  |     |                                |                |                               | VS - KAT - 1 - 4           | 47  | 210         | 90       | 3      | -54                | -5  | 3   | 0   | 100                    |         |
|  |     |                                |                |                               | VS - KAT - 1 - 5           | 47  | 205         | 0        | 3      | -54                | 0   | 3   | 0   | 95                     |         |
|  |     |                                |                |                               | VS - KAT - 2 - 1           | 47  | 195         | 0        | 3      | -54                | 0   | 3   | 0   | 94                     |         |
|  |     |                                |                |                               | VS - KAT - 2 - 2           | 47  | 190         | 0        | 3      | -54                | 0   | 3   | 0   | 94                     |         |
|  |     |                                |                |                               | VS - KAT - 2 - 3           | 47  | 190         | 180      | 3      | -54                | -10 | 3   | 0   | 104                    |         |
|  |     |                                |                |                               | VS - KAT - 2 - 4           | 47  | 185         | 90       | 3      | -53                | -5  | 3   | 0   | 99                     |         |
|  |     |                                |                |                               | VS - KAT - 2 - 5           | 47  | 185         | 0        | 3      | -53                | 0   | 3   | 0   | 94                     |         |
|  |     |                                |                |                               | VS - KAT - 3 - 5           | 47  | 115         | 0        | 3      | -49                | 0   | 3   | 0   | 90                     |         |
|  |     |                                |                |                               | VS - KAT - 4 - 5           | 47  | 110         | 0        | 3      | -49                | 0   | 3   | 0   | 89                     |         |
|  |     |                                |                |                               | VS - KAT - 5 - 1           | 47  | 105         | 0        | 3      | -48                | 0   | 3   | 0   | 89                     |         |
|  |     |                                |                |                               | VS - KAT - 5 - 2           | 47  | 100         | 0        | 3      | -48                | 0   | 3   | 0   | 89                     |         |
|  |     |                                |                |                               | VS - KAT - 5 - 3           | 47  | 105         | 90       | 3      | -48                | -5  | 3   | 0   | 94                     |         |
|  |     |                                |                |                               | VS - KAT - 5 - 5           | 47  | 105         | 0        | 3      | -48                | 0   | 3   | 0   | 89                     |         |
|  |     |                                |                |                               | VS - KAT - 6 - 1           | 47  | 105         | 0        | 3      | -48                | 0   | 3   | 0   | 89                     |         |
|  |     |                                |                |                               | VS - KAT - 6 - 3           | 47  | 105         | 90       | 3      | -48                | -5  | 3   | 0   | 94                     |         |
|  |     |                                |                |                               | VS - KAT - 6 - 4           | 47  | 105         | 180      | 3      | -48                | -10 | 3   | 0   | 99                     |         |
|  |     |                                |                |                               | VS - KAT - 6 - 5           | 47  | 105         | 0        | 3      | -48                | 0   | 3   | 0   | 89                     |         |
|  |     |                                |                |                               | VS - KAT - 7 - 1           | 47  | 95          | 0        | 3      | -48                | 0   | 3   | 0   | 88                     |         |
|  |     |                                |                |                               | VS - KAT - 7 - 2           | 47  | 115         | 0        | 3      | -49                | 0   | 3   | 0   | 90                     |         |
| VS - KAT - 7 - 3                         | 47  | 140                            | 90             | 3                             | -51                        | -5  | 3           | 0        | 96     |                    |     |     |     |                        |         |
| VS - KAT - 7 - 4                         | 47  | 120                            | 180            | 3                             | -50                        | -10   | 3           | 0        | 100    |                    |     |     |     |                        |         |
| VS - KAT - 7 - 5                         | 47  | 115                            | 0              | 3                             | -49                        | 0   | 3           | 0        | 90     |                    |     |     |     |                        |         |
|  |     |                                |                |                               | 60                         |   |             |          |        |                    |     |     |     |                        |         |
| KAT-P1-1 (Planned NSR)<br><br>Night-time | B   | 50                             | 56             | 50                            | VS - KAT - 1 - 1           | 37  | 205         | 0        | 3      | -54                | 0   | 3   | 0   | 85                     |         |
|  |     |                                |                |                               | VS - KAT - 1 - 4           | 37  | 210         | 90       | 3      | -54                | -5  | 3   | 0   | 90                     |         |
|  |     |                                |                |                               | VS - KAT - 1 - 5           | 37  | 205         | 0        | 3      | -54                | 0   | 3   | 0   | 85                     |         |
|  |     |                                |                |                               | VS - KAT - 2 - 1           | 37  | 195         | 0        | 3      | -54                | 0   | 3   | 0   | 84                     |         |
|  |     |                                |                |                               | VS - KAT - 2 - 2           | 37  | 190         | 0        | 3      | -54                | 0   | 3   | 0   | 84                     |         |
|  |     |                                |                |                               | VS - KAT - 2 - 3           | 37  | 190         | 180      | 3      | -54                | -10 | 3   | 0   | 94                     |         |
|  |     |                                |                |                               | VS - KAT - 2 - 4           | 37  | 185         | 90       | 3      | -53                | -5  | 3   | 0   | 89                     |         |
|  |     |                                |                |                               | VS - KAT - 2 - 5           | 37  | 185         | 0        | 3      | -53                | 0   | 3   | 0   | 84                     |         |
|  |     |                                |                |                               | VS - KAT - 3 - 5           | 37  | 115         | 0        | 3      | -49                | 0   | 3   | 0   | 80                     |         |
|  |     |                                |                |                               | VS - KAT - 4 - 5           | 37  | 110         | 0        | 3      | -49                | 0   | 3   | 0   | 79                     |         |
|  |     |                                |                |                               | VS - KAT - 5 - 1           | 37  | 105         | 0        | 3      | -48                | 0   | 3   | 0   | 79                     |         |
|  |     |                                |                |                               | VS - KAT - 5 - 2           | 37  | 100         | 0        | 3      | -48                | 0   | 3   | 0   | 79                     |         |
|  |     |                                |                |                               | VS - KAT - 5 - 3           | 37  | 105         | 90       | 3      | -48                | -5  | 3   | 0   | 84                     |         |
|  |     |                                |                |                               | VS - KAT - 5 - 5           | 37  | 105         | 0        | 3      | -48                | 0   | 3   | 0   | 79                     |         |
|  |     |                                |                |                               | VS - KAT - 6 - 1           | 37  | 105         | 0        | 3      | -48                | 0   | 3   | 0   | 79                     |         |
|  |     |                                |                |                               | VS - KAT - 6 - 3           | 37  | 105         | 90       | 3      | -48                | -5  | 3   | 0   | 84                     |         |
|  |     |                                |                |                               | VS - KAT - 6 - 4           | 37  | 105         | 180      | 3      | -48                | -10 | 3   | 0   | 89                     |         |
|  |     |                                |                |                               | VS - KAT - 6 - 5           | 37  | 105         | 0        | 3      | -48                | 0   | 3   | 0   | 79                     |         |
|  |     |                                |                |                               | VS - KAT - 7 - 1           | 37  | 95          | 0        | 3      | -48                | 0   | 3   | 0   | 78                     |         |
|  |     |                                |                |                               | VS - KAT - 7 - 2           | 37  | 115         | 0        | 3      | -49                | 0   | 3   | 0   | 80                     |         |
| VS - KAT - 7 - 3                         | 37  | 140                            | 90             | 3                             | -51                        | -5  | 3           | 0        | 86     |                    |     |     |     |                        |         |
| VS - KAT - 7 - 4                         | 37  | 120                            | 180            | 3                             | -50                        | -10   | 3           | 0        | 90     |                    |     |     |     |                        |         |
| VS - KAT - 7 - 5                         | 37  | 115                            | 0              | 3                             | -49                        | 0   | 3           | 0        | 80     |                    |     |     |     |                        |         |
|  |     |                                |                |                               | 50                         |   |             |          |        |                    |     |     |     |                        |         |

| Receiver                                 | ASR | Noise Levels / Criteria, dB(A) |                |                               | Contributing Noise Sources | Apportioned Criteria, dB(A)<br>(d) -All adds up to (c) | Propagation |          |        | Corrections, dB(A) |     |     |     | Permissible SWL, dB(A) | Remarks |
|--|-----|--------------------------------|----------------|-------------------------------|----------------------------|--|-------------|----------|--------|--------------------|-----|-----|-----|------------------------|---------|
|  |     | ANL-5 (a)                      | Prevailing (b) | Design (c) = min of (a) & (b) |                            |  | Dist, m     | Dir, deg | Facade | Dist               | Dir | Ton | Int |                        |         |
| KAT-P1-2 (Planned NSR)<br><br>Daytime    | B   | 60                             | 70             | 60                            | VS - KAT - 1 - 1           | 47   | 205         | 0        | 3      | -54                | 0   | 3   | 0   | 95                     |         |
|  |     |                                |                |                               | VS - KAT - 1 - 4           | 47   | 210         | 180      | 3      | -54                | -10 | 3   | 0   | 105                    |         |
|  |     |                                |                |                               | VS - KAT - 1 - 5           | 47   | 205         | 0        | 3      | -54                | 0   | 3   | 0   | 95                     |         |
|  |     |                                |                |                               | VS - KAT - 2 - 1           | 47   | 195         | 0        | 3      | -54                | 0   | 3   | 0   | 94                     |         |
|  |     |                                |                |                               | VS - KAT - 2 - 2           | 47   | 190         | 0        | 3      | -54                | 0   | 3   | 0   | 94                     |         |
|  |     |                                |                |                               | VS - KAT - 2 - 3           | 47   | 190         | 90       | 3      | -54                | -5  | 3   | 0   | 99                     |         |
|  |     |                                |                |                               | VS - KAT - 2 - 4           | 47   | 185         | 180      | 3      | -53                | -10 | 3   | 0   | 104                    |         |
|  |     |                                |                |                               | VS - KAT - 2 - 5           | 47   | 185         | 0        | 3      | -53                | 0   | 3   | 0   | 94                     |         |
|  |     |                                |                |                               | VS - KAT - 3 - 5           | 47   | 115         | 0        | 3      | -49                | 0   | 3   | 0   | 90                     |         |
|  |     |                                |                |                               | VS - KAT - 4 - 5           | 47   | 110         | 0        | 3      | -49                | 0   | 3   | 0   | 89                     |         |
|  |     |                                |                |                               | VS - KAT - 5 - 1           | 47   | 105         | 180      | 3      | -48                | -10 | 3   | 0   | 99                     |         |
|  |     |                                |                |                               | VS - KAT - 5 - 2           | 47   | 100         | 0        | 3      | -48                | 0   | 3   | 0   | 89                     |         |
|  |     |                                |                |                               | VS - KAT - 5 - 3           | 47   | 105         | 0        | 3      | -48                | 0   | 3   | 0   | 89                     |         |
|  |     |                                |                |                               | VS - KAT - 5 - 5           | 47   | 105         | 0        | 3      | -48                | 0   | 3   | 0   | 89                     |         |
|  |     |                                |                |                               | VS - KAT - 6 - 1           | 47   | 105         | 180      | 3      | -48                | -10 | 3   | 0   | 99                     |         |
|  |     |                                |                |                               | VS - KAT - 6 - 3           | 47   | 105         | 0        | 3      | -48                | 0   | 3   | 0   | 89                     |         |
|  |     |                                |                |                               | VS - KAT - 6 - 4           | 47   | 105         | 180      | 3      | -48                | -10 | 3   | 0   | 99                     |         |
|  |     |                                |                |                               | VS - KAT - 6 - 5           | 47   | 105         | 0        | 3      | -48                | 0   | 3   | 0   | 89                     |         |
|  |     |                                |                |                               | VS - KAT - 7 - 1           | 47   | 85          | 90       | 3      | -47                | -5  | 3   | 0   | 92                     |         |
|  |     |                                |                |                               | VS - KAT - 7 - 2           | 47   | 60          | 0        | 3      | -44                | 0   | 3   | 0   | 84                     |         |
| VS - KAT - 7 - 3                         | 47  | 65                             | 90             | 3                             | -44                        | -5   | 3           | 0        | 90     |                    |     |     |     |                        |         |
| VS - KAT - 7 - 4                         | 47  | 75                             | 180            | 3                             | -46                        | -10  | 3           | 0        | 96     |                    |     |     |     |                        |         |
| VS - KAT - 7 - 5                         | 47  | 70                             | 0              | 3                             | -45                        | 0  | 3           | 0        | 85     |                    |     |     |     |                        |         |
|  |     |                                |                |                               | 60                         |  |             |          |        |                    |     |     |     |                        |         |
| KAT-P1-2 (Planned NSR)<br><br>Night-time | B   | 50                             | 56             | 50                            | VS - KAT - 1 - 1           | 37   | 205         | 0        | 3      | -54                | 0   | 3   | 0   | 85                     |         |
|  |     |                                |                |                               | VS - KAT - 1 - 4           | 37   | 210         | 180      | 3      | -54                | -10 | 3   | 0   | 95                     |         |
|  |     |                                |                |                               | VS - KAT - 1 - 5           | 37   | 205         | 0        | 3      | -54                | 0   | 3   | 0   | 85                     |         |
|  |     |                                |                |                               | VS - KAT - 2 - 1           | 37   | 195         | 0        | 3      | -54                | 0   | 3   | 0   | 84                     |         |
|  |     |                                |                |                               | VS - KAT - 2 - 2           | 37   | 190         | 0        | 3      | -54                | 0   | 3   | 0   | 84                     |         |
|  |     |                                |                |                               | VS - KAT - 2 - 3           | 37   | 190         | 90       | 3      | -54                | -5  | 3   | 0   | 89                     |         |
|  |     |                                |                |                               | VS - KAT - 2 - 4           | 37   | 185         | 180      | 3      | -53                | -10 | 3   | 0   | 94                     |         |
|  |     |                                |                |                               | VS - KAT - 2 - 5           | 37   | 185         | 0        | 3      | -53                | 0   | 3   | 0   | 84                     |         |
|  |     |                                |                |                               | VS - KAT - 3 - 5           | 37   | 115         | 0        | 3      | -49                | 0   | 3   | 0   | 80                     |         |
|  |     |                                |                |                               | VS - KAT - 4 - 5           | 37   | 110         | 0        | 3      | -49                | 0   | 3   | 0   | 79                     |         |
|  |     |                                |                |                               | VS - KAT - 5 - 1           | 37   | 105         | 180      | 3      | -48                | -10 | 3   | 0   | 89                     |         |
|  |     |                                |                |                               | VS - KAT - 5 - 2           | 37   | 100         | 0        | 3      | -48                | 0   | 3   | 0   | 79                     |         |
|  |     |                                |                |                               | VS - KAT - 5 - 3           | 37   | 105         | 0        | 3      | -48                | 0   | 3   | 0   | 79                     |         |
|  |     |                                |                |                               | VS - KAT - 5 - 5           | 37   | 105         | 0        | 3      | -48                | 0   | 3   | 0   | 79                     |         |
|  |     |                                |                |                               | VS - KAT - 6 - 1           | 37   | 105         | 180      | 3      | -48                | -10 | 3   | 0   | 89                     |         |
|  |     |                                |                |                               | VS - KAT - 6 - 3           | 37   | 105         | 0        | 3      | -48                | 0   | 3   | 0   | 79                     |         |
|  |     |                                |                |                               | VS - KAT - 6 - 4           | 37   | 105         | 180      | 3      | -48                | -10 | 3   | 0   | 89                     |         |
|  |     |                                |                |                               | VS - KAT - 6 - 5           | 37   | 105         | 0        | 3      | -48                | 0   | 3   | 0   | 79                     |         |
|  |     |                                |                |                               | VS - KAT - 7 - 1           | 37   | 85          | 90       | 3      | -47                | -5  | 3   | 0   | 82                     |         |
|  |     |                                |                |                               | VS - KAT - 7 - 2           | 37   | 60          | 0        | 3      | -44                | 0   | 3   | 0   | 74                     |         |
| VS - KAT - 7 - 3                         | 37  | 65                             | 90             | 3                             | -44                        | -5   | 3           | 0        | 80     |                    |     |     |     |                        |         |
| VS - KAT - 7 - 4                         | 37  | 75                             | 180            | 3                             | -46                        | -10  | 3           | 0        | 86     |                    |     |     |     |                        |         |
| VS - KAT - 7 - 5                         | 37  | 70                             | 0              | 3                             | -45                        | 0  | 3           | 0        | 75     |                    |     |     |     |                        |         |
|  |     |                                |                |                               | 50                         |  |             |          |        |                    |     |     |     |                        |         |

| Receiver                                 | ASR | Noise Levels / Criteria, dB(A) |                |                               | Contributing Noise Sources | Apportioned Criteria, dB(A)<br>(d) -All adds up to (c) | Propagation |          | Corrections, dB(A) |      |     |     | Permissible SWL, dB(A) | Remarks |     |
|--|-----|--------------------------------|----------------|-------------------------------|----------------------------|--|-------------|----------|--------------------|------|-----|-----|------------------------|---------|-----|
|  |     | ANL-5 (a)                      | Prevailing (b) | Design (c) = min of (a) & (b) |                            |  | Dist, m     | Dir, deg | Facade             | Dist | Dir | Ton |                        |         | Int |
| KAT-P1-3 (Planned NSR)<br><br>Daytime    | B   | 60                             | 70             | 60                            | VS - KAT - 1 - 1           | 47   | 205         | 180      | 3                  | -54  | -10 | 3   | 0                      | 105     |     |
|  |     |                                |                |                               | VS - KAT - 1 - 4           | 47   | 210         | 90       | 3                  | -54  | -5  | 3   | 0                      | 100     |     |
|  |     |                                |                |                               | VS - KAT - 1 - 5           | 47   | 205         | 0        | 3                  | -54  | 0   | 3   | 0                      | 95      |     |
|  |     |                                |                |                               | VS - KAT - 2 - 1           | 47   | 195         | 180      | 3                  | -54  | -10 | 3   | 0                      | 104     |     |
|  |     |                                |                |                               | VS - KAT - 2 - 2           | 47   | 190         | 0        | 3                  | -54  | 0   | 3   | 0                      | 94      |     |
|  |     |                                |                |                               | VS - KAT - 2 - 3           | 47   | 190         | 0        | 3                  | -54  | 0   | 3   | 0                      | 94      |     |
|  |     |                                |                |                               | VS - KAT - 2 - 4           | 47   | 185         | 90       | 3                  | -53  | -5  | 3   | 0                      | 99      |     |
|  |     |                                |                |                               | VS - KAT - 2 - 5           | 47   | 185         | 0        | 3                  | -53  | 0   | 3   | 0                      | 94      |     |
|  |     |                                |                |                               | VS - KAT - 3 - 5           | 47   | 115         | 0        | 3                  | -49  | 0   | 3   | 0                      | 90      |     |
|  |     |                                |                |                               | VS - KAT - 4 - 5           | 47   | 110         | 0        | 3                  | -49  | 0   | 3   | 0                      | 89      |     |
|  |     |                                |                |                               | VS - KAT - 5 - 1           | 47   | 105         | 180      | 3                  | -48  | -10 | 3   | 0                      | 99      |     |
|  |     |                                |                |                               | VS - KAT - 5 - 2           | 47   | 100         | 90       | 3                  | -48  | -5  | 3   | 0                      | 94      |     |
|  |     |                                |                |                               | VS - KAT - 5 - 3           | 47   | 105         | 0        | 3                  | -48  | 0   | 3   | 0                      | 89      |     |
|  |     |                                |                |                               | VS - KAT - 5 - 5           | 47   | 105         | 0        | 3                  | -48  | 0   | 3   | 0                      | 89      |     |
|  |     |                                |                |                               | VS - KAT - 6 - 1           | 47   | 105         | 180      | 3                  | -48  | -10 | 3   | 0                      | 99      |     |
|  |     |                                |                |                               | VS - KAT - 6 - 3           | 47   | 105         | 0        | 3                  | -48  | 0   | 3   | 0                      | 89      |     |
|  |     |                                |                |                               | VS - KAT - 6 - 4           | 47   | 105         | 90       | 3                  | -48  | -5  | 3   | 0                      | 94      |     |
|  |     |                                |                |                               | VS - KAT - 6 - 5           | 47   | 105         | 0        | 3                  | -48  | 0   | 3   | 0                      | 89      |     |
|  |     |                                |                |                               | VS - KAT - 7 - 1           | 47   | 225         | 180      | 3                  | -55  | -10 | 3   | 0                      | 106     |     |
|  |     |                                |                |                               | VS - KAT - 7 - 2           | 47   | 195         | 0        | 3                  | -54  | 0   | 3   | 0                      | 94      |     |
| VS - KAT - 7 - 3                         | 47  | 170                            | 0              | 3                             | -53                        | 0  | 3           | 0        | 83                 |      |     |     |                        |         |     |
| VS - KAT - 7 - 4                         | 47  | 200                            | 90             | 3                             | -54                        | -5   | 3           | 0        | 100                |      |     |     |                        |         |     |
| VS - KAT - 7 - 5                         | 47  | 200                            | 0              | 3                             | -54                        | 0  | 3           | 0        | 95                 |      |     |     |                        |         |     |
|  |     |                                |                |                               | 60                         |  |             |          |                    |      |     |     |                        |         |     |
| KAT-P1-3 (Planned NSR)<br><br>Night-time | B   | 50                             | 56             | 50                            | VS - KAT - 1 - 1           | 37   | 205         | 180      | 3                  | -54  | -10 | 3   | 0                      | 95      |     |
|  |     |                                |                |                               | VS - KAT - 1 - 4           | 37   | 210         | 90       | 3                  | -54  | -5  | 3   | 0                      | 90      |     |
|  |     |                                |                |                               | VS - KAT - 1 - 5           | 37   | 205         | 0        | 3                  | -54  | 0   | 3   | 0                      | 85      |     |
|  |     |                                |                |                               | VS - KAT - 2 - 1           | 37   | 195         | 180      | 3                  | -54  | -10 | 3   | 0                      | 94      |     |
|  |     |                                |                |                               | VS - KAT - 2 - 2           | 37   | 190         | 0        | 3                  | -54  | 0   | 3   | 0                      | 84      |     |
|  |     |                                |                |                               | VS - KAT - 2 - 3           | 37   | 190         | 0        | 3                  | -54  | 0   | 3   | 0                      | 84      |     |
|  |     |                                |                |                               | VS - KAT - 2 - 4           | 37   | 185         | 90       | 3                  | -53  | -5  | 3   | 0                      | 89      |     |
|  |     |                                |                |                               | VS - KAT - 2 - 5           | 37   | 185         | 0        | 3                  | -53  | 0   | 3   | 0                      | 84      |     |
|  |     |                                |                |                               | VS - KAT - 3 - 5           | 37   | 115         | 0        | 3                  | -49  | 0   | 3   | 0                      | 80      |     |
|  |     |                                |                |                               | VS - KAT - 4 - 5           | 37   | 110         | 0        | 3                  | -49  | 0   | 3   | 0                      | 79      |     |
|  |     |                                |                |                               | VS - KAT - 5 - 1           | 37   | 105         | 180      | 3                  | -48  | -10 | 3   | 0                      | 89      |     |
|  |     |                                |                |                               | VS - KAT - 5 - 2           | 37   | 100         | 90       | 3                  | -48  | -5  | 3   | 0                      | 84      |     |
|  |     |                                |                |                               | VS - KAT - 5 - 3           | 37   | 105         | 0        | 3                  | -48  | 0   | 3   | 0                      | 79      |     |
|  |     |                                |                |                               | VS - KAT - 5 - 5           | 37   | 105         | 0        | 3                  | -48  | 0   | 3   | 0                      | 79      |     |
|  |     |                                |                |                               | VS - KAT - 6 - 1           | 37   | 105         | 180      | 3                  | -48  | -10 | 3   | 0                      | 89      |     |
|  |     |                                |                |                               | VS - KAT - 6 - 3           | 37   | 105         | 0        | 3                  | -48  | 0   | 3   | 0                      | 79      |     |
|  |     |                                |                |                               | VS - KAT - 6 - 4           | 37   | 105         | 90       | 3                  | -48  | -5  | 3   | 0                      | 84      |     |
|  |     |                                |                |                               | VS - KAT - 6 - 5           | 37   | 105         | 0        | 3                  | -48  | 0   | 3   | 0                      | 79      |     |
|  |     |                                |                |                               | VS - KAT - 7 - 1           | 37   | 225         | 180      | 3                  | -55  | -10 | 3   | 0                      | 96      |     |
|  |     |                                |                |                               | VS - KAT - 7 - 2           | 37   | 195         | 0        | 3                  | -54  | 0   | 3   | 0                      | 84      |     |
| VS - KAT - 7 - 3                         | 37  | 170                            | 0              | 3                             | -53                        | 0  | 3           | 0        | 83                 |      |     |     |                        |         |     |
| VS - KAT - 7 - 4                         | 37  | 200                            | 90             | 3                             | -54                        | -5   | 3           | 0        | 90                 |      |     |     |                        |         |     |
| VS - KAT - 7 - 5                         | 37  | 200                            | 0              | 3                             | -54                        | 0  | 3           | 0        | 85                 |      |     |     |                        |         |     |
|  |     |                                |                |                               | 50                         |  |             |          |                    |      |     |     |                        |         |     |

| Receiver                             | ASR | Noise Levels / Criteria, dB(A) |                |                               | Contributing Noise Sources | Apportioned Criteria, dB(A)<br>(d) -All adds up to (c) | Propagation |          | Corrections, dB(A) |      |     |     | Permissible SWL, dB(A) | Remarks |     |
|--------------------------------------|-----|--------------------------------|----------------|-------------------------------|----------------------------|--|-------------|----------|--------------------|------|-----|-----|------------------------|---------|-----|
|                                      |     | ANL-5 (a)                      | Prevailing (b) | Design (c) = min of (a) & (b) |                            |  | Dist, m     | Dir, deg | Facade             | Dist | Dir | Ton |                        |         | Int |
| KAT-P1-4 (Planned NSR)<br>Daytime    | B   | 60                             | 70             | 60                            | VS - KAT - 1 - 1           | 47   | 205         | 90       | 3                  | -54  | -5  | 3   | 0                      | 100     |     |
|                                      |     |                                |                |                               | VS - KAT - 1 - 4           | 47   | 210         | 0        | 3                  | -54  | 0   | 3   | 0                      | 95      |     |
|                                      |     |                                |                |                               | VS - KAT - 1 - 5           | 47   | 205         | 0        | 3                  | -54  | 0   | 3   | 0                      | 95      |     |
|                                      |     |                                |                |                               | VS - KAT - 2 - 1           | 47   | 195         | 90       | 3                  | -54  | -5  | 3   | 0                      | 99      |     |
|                                      |     |                                |                |                               | VS - KAT - 2 - 2           | 47   | 190         | 180      | 3                  | -54  | -10 | 3   | 0                      | 104     |     |
|                                      |     |                                |                |                               | VS - KAT - 2 - 3           | 47   | 190         | 90       | 3                  | -54  | -5  | 3   | 0                      | 99      |     |
|                                      |     |                                |                |                               | VS - KAT - 2 - 4           | 47   | 185         | 0        | 3                  | -53  | 0   | 3   | 0                      | 94      |     |
|                                      |     |                                |                |                               | VS - KAT - 2 - 5           | 47   | 185         | 0        | 3                  | -53  | 0   | 3   | 0                      | 94      |     |
|                                      |     |                                |                |                               | VS - KAT - 3 - 5           | 47   | 115         | 0        | 3                  | -49  | 0   | 3   | 0                      | 90      |     |
|                                      |     |                                |                |                               | VS - KAT - 4 - 5           | 47   | 110         | 0        | 3                  | -49  | 0   | 3   | 0                      | 89      |     |
|                                      |     |                                |                |                               | VS - KAT - 5 - 1           | 47   | 105         | 180      | 3                  | -48  | -10 | 3   | 0                      | 99      |     |
|                                      |     |                                |                |                               | VS - KAT - 5 - 2           | 47   | 100         | 90       | 3                  | -48  | -5  | 3   | 0                      | 94      |     |
|                                      |     |                                |                |                               | VS - KAT - 5 - 3           | 47   | 105         | 0        | 3                  | -48  | 0   | 3   | 0                      | 89      |     |
|                                      |     |                                |                |                               | VS - KAT - 5 - 5           | 47   | 105         | 0        | 3                  | -48  | 0   | 3   | 0                      | 89      |     |
|                                      |     |                                |                |                               | VS - KAT - 6 - 1           | 47   | 105         | 180      | 3                  | -48  | -10 | 3   | 0                      | 99      |     |
|                                      |     |                                |                |                               | VS - KAT - 6 - 3           | 47   | 105         | 0        | 3                  | -48  | 0   | 3   | 0                      | 89      |     |
|                                      |     |                                |                |                               | VS - KAT - 6 - 4           | 47   | 105         | 0        | 3                  | -48  | 0   | 3   | 0                      | 89      |     |
|                                      |     |                                |                |                               | VS - KAT - 6 - 5           | 47   | 105         | 0        | 3                  | -48  | 0   | 3   | 0                      | 89      |     |
|                                      |     |                                |                |                               | VS - KAT - 7 - 1           | 47   | 155         | 90       | 3                  | -52  | -5  | 3   | 0                      | 97      |     |
|                                      |     |                                |                |                               | VS - KAT - 7 - 2           | 47   | 135         | 180      | 3                  | -51  | -10 | 3   | 0                      | 101     |     |
| VS - KAT - 7 - 3                     | 47  | 115                            | 0              | 3                             | -49                        | 0  | 3           | 0        | 90                 |      |     |     |                        |         |     |
| VS - KAT - 7 - 4                     | 47  | 125                            | 0              | 3                             | -50                        | 0  | 3           | 0        | 90                 |      |     |     |                        |         |     |
| VS - KAT - 7 - 5                     | 47  | 135                            | 0              | 3                             | -51                        | 0  | 3           | 0        | 91                 |      |     |     |                        |         |     |
|                                      |     |                                |                |                               | 60                         |  |             |          |                    |      |     |     |                        |         |     |
| KAT-P1-4 (Planned NSR)<br>Night-time | B   | 50                             | 56             | 50                            | VS - KAT - 1 - 1           | 37   | 205         | 90       | 3                  | -54  | -5  | 3   | 0                      | 90      |     |
|                                      |     |                                |                |                               | VS - KAT - 1 - 4           | 37   | 210         | 0        | 3                  | -54  | 0   | 3   | 0                      | 85      |     |
|                                      |     |                                |                |                               | VS - KAT - 1 - 5           | 37   | 205         | 0        | 3                  | -54  | 0   | 3   | 0                      | 85      |     |
|                                      |     |                                |                |                               | VS - KAT - 2 - 1           | 37   | 195         | 90       | 3                  | -54  | -5  | 3   | 0                      | 89      |     |
|                                      |     |                                |                |                               | VS - KAT - 2 - 2           | 37   | 190         | 180      | 3                  | -54  | -10 | 3   | 0                      | 94      |     |
|                                      |     |                                |                |                               | VS - KAT - 2 - 3           | 37   | 190         | 90       | 3                  | -54  | -5  | 3   | 0                      | 89      |     |
|                                      |     |                                |                |                               | VS - KAT - 2 - 4           | 37   | 185         | 0        | 3                  | -53  | 0   | 3   | 0                      | 84      |     |
|                                      |     |                                |                |                               | VS - KAT - 2 - 5           | 37   | 185         | 0        | 3                  | -53  | 0   | 3   | 0                      | 84      |     |
|                                      |     |                                |                |                               | VS - KAT - 3 - 5           | 37   | 115         | 0        | 3                  | -49  | 0   | 3   | 0                      | 80      |     |
|                                      |     |                                |                |                               | VS - KAT - 4 - 5           | 37   | 110         | 0        | 3                  | -49  | 0   | 3   | 0                      | 79      |     |
|                                      |     |                                |                |                               | VS - KAT - 5 - 1           | 37   | 105         | 180      | 3                  | -48  | -10 | 3   | 0                      | 89      |     |
|                                      |     |                                |                |                               | VS - KAT - 5 - 2           | 37   | 100         | 90       | 3                  | -48  | -5  | 3   | 0                      | 84      |     |
|                                      |     |                                |                |                               | VS - KAT - 5 - 3           | 37   | 105         | 0        | 3                  | -48  | 0   | 3   | 0                      | 79      |     |
|                                      |     |                                |                |                               | VS - KAT - 5 - 5           | 37   | 105         | 0        | 3                  | -48  | 0   | 3   | 0                      | 79      |     |
|                                      |     |                                |                |                               | VS - KAT - 6 - 1           | 37   | 105         | 180      | 3                  | -48  | -10 | 3   | 0                      | 89      |     |
|                                      |     |                                |                |                               | VS - KAT - 6 - 3           | 37   | 105         | 0        | 3                  | -48  | 0   | 3   | 0                      | 79      |     |
|                                      |     |                                |                |                               | VS - KAT - 6 - 4           | 37   | 105         | 0        | 3                  | -48  | 0   | 3   | 0                      | 79      |     |
|                                      |     |                                |                |                               | VS - KAT - 6 - 5           | 37   | 105         | 0        | 3                  | -48  | 0   | 3   | 0                      | 79      |     |
|                                      |     |                                |                |                               | VS - KAT - 7 - 1           | 37   | 155         | 90       | 3                  | -52  | -5  | 3   | 0                      | 87      |     |
|                                      |     |                                |                |                               | VS - KAT - 7 - 2           | 37   | 135         | 180      | 3                  | -51  | -10 | 3   | 0                      | 91      |     |
| VS - KAT - 7 - 3                     | 37  | 115                            | 0              | 3                             | -49                        | 0  | 3           | 0        | 80                 |      |     |     |                        |         |     |
| VS - KAT - 7 - 4                     | 37  | 125                            | 0              | 3                             | -50                        | 0  | 3           | 0        | 80                 |      |     |     |                        |         |     |
| VS - KAT - 7 - 5                     | 37  | 135                            | 0              | 3                             | -51                        | 0  | 3           | 0        | 81                 |      |     |     |                        |         |     |
|                                      |     |                                |                |                               | 50                         |  |             |          |                    |      |     |     |                        |         |     |

Project  
Title

: SCL - Stabling Sidings at Hung Hom Freight Yard  
: Maximum allowable SWL for Ventilation Shaft at KAT

| Noise Sources    | Daytime | Night-time |
|------------------|---------|------------|
| VS - KAT - 1 - 1 | 95      | 85         |
| VS - KAT - 1 - 4 | 95      | 85         |
| VS - KAT - 1 - 5 | 95      | 85         |
| VS - KAT - 2 - 1 | 94      | 84         |
| VS - KAT - 2 - 2 | 94      | 84         |
| VS - KAT - 2 - 3 | 94      | 84         |
| VS - KAT - 2 - 4 | 94      | 84         |
| VS - KAT - 2 - 5 | 94      | 84         |
| VS - KAT - 3 - 5 | 90      | 80         |
| VS - KAT - 4 - 5 | 89      | 79         |
| VS - KAT - 5 - 1 | 89      | 79         |
| VS - KAT - 5 - 2 | 89      | 79         |
| VS - KAT - 5 - 3 | 89      | 79         |
| VS - KAT - 5 - 5 | 89      | 79         |
| VS - KAT - 6 - 1 | 89      | 79         |
| VS - KAT - 6 - 3 | 89      | 79         |
| VS - KAT - 6 - 4 | 89      | 79         |
| VS - KAT - 6 - 5 | 89      | 79         |
| VS - KAT - 7 - 1 | 88      | 78         |
| VS - KAT - 7 - 2 | 84      | 74         |
| VS - KAT - 7 - 3 | 90      | 80         |
| VS - KAT - 7 - 4 | 90      | 80         |
| VS - KAT - 7 - 5 | 85      | 75         |