

## Appendix 4.9.1 Detailed Calculations of Fixed Plant Noise

### TONAL CORRECTION FOR MEASURED 1/3 OCTAVE NOISE LEVELS: EPS1

#### Day Time

##### MEASURED NOISE LEVELS :

Freq, Hz	25	31.5	40	50	63	80	100	125	160	200	250	315	400	500	630	800	1k	1.25k	1.6k	2k	2.5k	3.15k	4k	5k	6.3k	8k	10k	12.5k	16k
A-WT Lp, dB	17.2	22.1	27.1	33.8	40.1	38.8	40.4	44.2	50.2	50.2	52.1	52.4	55.2	53.6	55.0	55.3	55.9	54.6	54.6	53.6	52.1	50.5	48.2	45.8	43.4	40.4	36.3	32.5	24.3
A-Wt Sound Pr. Level =	<u>65.4 dB(A)</u>																												

##### CORRECTION FOR TONALITY

##### CORRECTION (a) :

MAX = 55.9

Max - X < 15

Freq, Hz	25	31.5	40	50	63	80	100	125	160	200	250	315	400	500	630	800	1k	1.25k	1.6k	2k	2.5k	3.15k	4k	5k	6.3k	8k	10k	12.5k	16k
A-WT Lp, dB	17.2	22.1	27.1	33.8	40.1	38.8	40.4	44.2	50.2	50.2	52.1	52.4	55.2	53.6	55.0	55.3	55.9	54.6	54.6	53.6	52.1	50.5	48.2	45.8	43.4	40.4	36.3	32.5	24.3
	0	0	0	0	0	0	0	44.2	50.2	50.2	52.1	52.4	55.2	53.6	55.0	55.3	55.9	54.6	54.6	53.6	52.1	50.5	48.2	45.8	43.4	0	0	0	0

##### CORRECTION (b) :

X - adjacent bands >1

	0	0	0	0	0	0	0	0	0	0	0	0	55.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
--	---	---	---	---	---	---	---	---	---	---	---	---	------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

##### CORRECTION (c) :

X - mean of adjacent bands >3

	0	0	0	0	0	0	0	0	0	0	0	0	2.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ftone=	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

##### TONAL CORRECTION :

dB(A)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TONAL CORR.=	<u>0 dB(A)</u>																												

## Appendix 4.9.1 Detailed Calculations of Fixed Plant Noise

### TONAL CORRECTION FOR MEASURED 1/3 OCTAVE NOISE LEVELS - PAIR OF BANDS: EPS1

#### Day Time

#### MEASURED NOISE LEVELS :

Freq, Hz	25	31.5	40	50	63	80	100	125	160	200	250	315	400	500	630	800	1k	1.25k	1.6k	2k	2.5k	3.15k	4k	5k	6.3k	8k	10k	12.5k	16k
A-WT Lp, dB	17.2	22.1	27.1	33.8	40.1	38.8	40.4	44.2	50.2	50.2	52.1	52.4	55.2	53.6	55.0	55.3	55.9	54.6	54.6	53.6	52.1	50.5	48.2	45.8	43.4	40.4	36.3	32.5	24.3
A-Wt Sound Pr. Level =	<u>65.4 dB(A)</u>																												

#### CORRECTION FOR TONALITY

CORRECTION (a) : MAX = 55.9

Max - Max of Xs < 15

Freq, Hz	25	31.5	40	50	63	80	100	125	160	200	250	315	400	500	630	800	1k	1.25k	1.6k	2k	2.5k	3.15k	4k	5k	6.3k	8k	10k	12.5k	16k
A Wt Lp, dB	17.2	22.1	27.1	33.8	40.1	38.8	40.4	44.2	50.2	50.2	52.1	52.4	55.2	53.6	55.0	55.3	55.9	54.6	54.6	53.6	52.1	50.5	48.2	45.8	43.4	40.4	36.3	32.5	24.3
Ave. Lp of pair	0	24.6	30.5	37.0	39.5	39.6	42.3	47.2	50.2	51.1	52.3	53.8	54.4	54.3	55.2	55.6	55.2	54.6	54.1	52.8	51.3	49.4	47.0	44.6	41.9	38.3	34.4	28.4	0
	0	0	0	0	0	0	42.3	47.2	50.2	51.1	52.3	53.8	54.4	54.3	55.2	55.6	55.2	54.6	54.1	52.8	51.3	49.4	47.0	44.6	41.9	0	0	0	0

#### CORRECTION (b) :

Mean of X - adjacent bands >1

	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
--	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

#### CORRECTION (c) :

Mean of X - mean of adjacent bands >3

	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
--	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Ftone= 

0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

#### TONAL CORRECTION :

Pair of 1/3 octave bands starting with, Hz

	31.5	40	50	63	80	100	125	160	200	250	315	400	500	630	800	1k	1.25k	1.6k	2k	2.5k	3.15k	4k	5k	6.3k	8k	10k		
dB(A)	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
TONAL CORR.=	<u><b>0</b></u> dB(A)																											

## Appendix 4.9.1 Detailed Calculations of Fixed Plant Noise

### TONAL CORRECTION FOR MEASURED 1/3 OCTAVE NOISE LEVELS: EPS1

#### Evening Time

##### MEASURED NOISE LEVELS :

Freq, Hz	25	31.5	40	50	63	80	100	125	160	200	250	315	400	500	630	800	1k	1.25k	1.6k	2k	2.5k	3.15k	4k	5k	6.3k	8k	10k	12.5k	16k
A-WT Lp, dB	18.4	22.5	27.6	33.4	41.2	39.2	40.8	41.6	44.1	46.4	48.4	49.2	51.0	53.0	54.1	55.3	55.9	54.7	54.6	53.2	51.6	49.6	46.7	44.3	42.5	39.3	35.9	31.5	28.7
A-Wt Sound Pr. Level =	<u>64.3 dB(A)</u>																												

##### CORRECTION FOR TONALITY

##### CORRECTION (a) :

MAX = 55.9

Max - X < 15

Freq, Hz	25	31.5	40	50	63	80	100	125	160	200	250	315	400	500	630	800	1k	1.25k	1.6k	2k	2.5k	3.15k	4k	5k	6.3k	8k	10k	12.5k	16k
A-WT Lp, dB	18.4	22.5	27.6	33.4	41.2	39.2	40.8	41.6	44.1	46.4	48.4	49.2	51.0	53.0	54.1	55.3	55.9	54.7	54.6	53.2	51.6	49.6	46.7	44.3	42.5	39.3	35.9	31.5	28.7
	0	0	0	0	41.2	0	0	41.6	44.1	46.4	48.4	49.2	51.0	53.0	54.1	55.3	55.9	54.7	54.6	53.2	51.6	49.6	46.7	44.3	42.5	0	0	0	0

##### CORRECTION (b) :

X - adjacent bands >1

	0	0	0	0	41.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
--	---	---	---	---	------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

##### CORRECTION (c) :

X - mean of adjacent bands >3

	0	0	0	0	4.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ftone=	0	0	0	0	4.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

##### TONAL CORRECTION :

dB(A)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TONAL CORR.=	<u>0 dB(A)</u>																												

## Appendix 4.9.1 Detailed Calculations of Fixed Plant Noise

### TONAL CORRECTION FOR MEASURED 1/3 OCTAVE NOISE LEVELS - PAIR OF BANDS: EPS1

#### Evening Time

#### MEASURED NOISE LEVELS :

Freq, Hz	25	31.5	40	50	63	80	100	125	160	200	250	315	400	500	630	800	1k	1.25k	1.6k	2k	2.5k	3.15k	4k	5k	6.3k	8k	10k	12.5k	16k
A-WT Lp, dB	18.4	22.5	27.6	33.4	41.2	39.2	40.8	41.6	44.1	46.4	48.4	49.2	51.0	53.0	54.1	55.3	55.9	54.7	54.6	53.2	51.6	49.6	46.7	44.3	42.5	39.3	35.9	31.5	28.7
A-Wt Sound Pr. Level =	<u>64.3 dB(A)</u>																												

#### CORRECTION FOR TONALITY

CORRECTION (a) : MAX = 55.9

Max - Max of Xs < 15

Freq, Hz	25	31.5	40	50	63	80	100	125	160	200	250	315	400	500	630	800	1k	1.25k	1.6k	2k	2.5k	3.15k	4k	5k	6.3k	8k	10k	12.5k	16k
A Wt Lp, dB	18.4	22.5	27.6	33.4	41.2	39.2	40.8	41.6	44.1	46.4	48.4	49.2	51.0	53.0	54.1	55.3	55.9	54.7	54.6	53.2	51.6	49.6	46.7	44.3	42.5	39.3	35.9	31.5	28.7
Ave. Lp of pair	0	25.0	30.5	37.3	40.2	40.0	41.2	42.8	45.2	47.4	48.8	50.1	52.0	53.6	54.7	55.6	55.3	54.7	53.9	52.4	50.6	48.1	45.5	43.4	40.9	37.6	33.7	30.1	0
	0	0	0	37.3	40.2	0	41.2	42.8	45.2	47.4	48.8	50.1	52.0	53.6	54.7	55.6	55.3	54.7	53.9	52.4	50.6	48.1	45.5	43.4	40.9	0	0	0	0

#### CORRECTION (b) :

Mean of X - adjacent bands >1

	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
--	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

#### CORRECTION (c) :

Mean of X - mean of adjacent bands >3

	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
--	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Ftone=	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
--------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

#### TONAL CORRECTION :

Pair of 1/3 octave bands starting with, Hz

	31.5	40	50	63	80	100	125	160	200	250	315	400	500	630	800	1k	1.25k	1.6k	2k	2.5k	3.15k	4k	5k	6.3k	8k	10k		
dB(A)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
TONAL CORR.=	<u>0 dB(A)</u>																											

## Appendix 4.9.1 Detailed Calculations of Fixed Plant Noise

### TONAL CORRECTION FOR MEASURED 1/3 OCTAVE NOISE LEVELS: EPS1

#### Night Time

##### MEASURED NOISE LEVELS :

Freq, Hz	25	31.5	40	50	63	80	100	125	160	200	250	315	400	500	630	800	1k	1.25k	1.6k	2k	2.5k	3.15k	4k	5k	6.3k	8k	10k	12.5k	16k
A-WT Lp, dB	16.7	19.6	25.3	32.3	37.5	36.4	39.1	42.1	44.4	47.9	48.1	50.2	51.5	52.5	53.6	54.5	54.8	53.9	53.7	52.7	51.6	50.6	45.7	42.6	39.7	35.8	32.8	26.7	21.2
A-Wt Sound Pr. Level =	<u>63.8 dB(A)</u>																												

##### CORRECTION FOR TONALITY

##### CORRECTION (a) :

MAX = 54.8

Max - X < 15

Freq, Hz	25	31.5	40	50	63	80	100	125	160	200	250	315	400	500	630	800	1k	1.25k	1.6k	2k	2.5k	3.15k	4k	5k	6.3k	8k	10k	12.5k	16k
A-WT Lp, dB	16.7	19.6	25.3	32.3	37.5	36.4	39.1	42.1	44.4	47.9	48.1	50.2	51.5	52.5	53.6	54.5	54.8	53.9	53.7	52.7	51.6	50.6	45.7	42.6	39.7	35.8	32.8	26.7	21.2
	0	0	0	0	0	0	0	42.1	44.4	47.9	48.1	50.2	51.5	52.5	53.6	54.5	54.8	53.9	53.7	52.7	51.6	50.6	45.7	42.6	0	0	0	0	0

##### CORRECTION (b) :

X - adjacent bands >1

0 0

##### CORRECTION (c) :

X - mean of adjacent bands >3

0 0

Ftone= 0

##### TONAL CORRECTION :

dB(A) 0

TONAL CORR.= 0 dB(A)

## Appendix 4.9.1 Detailed Calculations of Fixed Plant Noise

### TONAL CORRECTION FOR MEASURED 1/3 OCTAVE NOISE LEVELS - PAIR OF BANDS: EPS1

#### Night Time

#### MEASURED NOISE LEVELS :

Freq, Hz	25	31.5	40	50	63	80	100	125	160	200	250	315	400	500	630	800	1k	1.25k	1.6k	2k	2.5k	3.15k	4k	5k	6.3k	8k	10k	12.5k	16k
A-WT Lp, dB	16.7	19.6	25.3	32.3	37.5	36.4	39.1	42.1	44.4	47.9	48.1	50.2	51.5	52.5	53.6	54.5	54.8	53.9	53.7	52.7	51.6	50.6	45.7	42.6	39.7	35.8	32.8	26.7	21.2
A-Wt Sound Pr. Level =	<u>63.8 dB(A)</u>																												

#### CORRECTION FOR TONALITY

CORRECTION (a) :	MAX = 54.8																												
Max - Max of Xs < 15																													
Freq, Hz	25	31.5	40	50	63	80	100	125	160	200	250	315	400	500	630	800	1k	1.25k	1.6k	2k	2.5k	3.15k	4k	5k	6.3k	8k	10k	12.5k	16k
A Wt Lp, dB	16.7	19.6	25.3	32.3	37.5	36.4	39.1	42.1	44.4	47.9	48.1	50.2	51.5	52.5	53.6	54.5	54.8	53.9	53.7	52.7	51.6	50.6	45.7	42.6	39.7	35.8	32.8	26.7	21.2
Ave. Lp of pair	0	22.5	28.8	34.9	36.9	37.8	40.6	43.2	46.1	48.0	49.1	50.9	52.0	53.0	54.1	54.7	54.4	53.8	53.2	52.2	51.1	48.2	44.2	41.2	37.8	34.3	29.7	23.9	0
	0	0	0	0	0	0	40.6	43.2	46.1	48.0	49.1	50.9	52.0	53.0	54.1	54.7	54.4	53.8	53.2	52.2	51.1	48.2	44.2	41.2	0	0	0	0	0

#### CORRECTION (b) :

Mean of X - adjacent bands >1																													
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

#### CORRECTION (c) :

Mean of X - mean of adjacent bands >3																													
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ftone=	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

#### TONAL CORRECTION :

#### Pair of 1/3 octave bands starting with, Hz

	31.5	40	50	63	80	100	125	160	200	250	315	400	500	630	800	1k	1.25k	1.6k	2k	2.5k	3.15k	4k	5k	6.3k	8k	10k		
dB(A)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
TONAL CORR.=	<u>0 dB(A)</u>																											

# Appendix 4.9.1 Detailed Calculations of Fixed Plant Noise

## TONAL CORRECTION FOR MEASURED 1/3 OCTAVE NOISE LEVELS: EPS2

### MEASURED NOISE LEVELS :

Freq, Hz	25	31.5	40	50	63	80	100	125	160	200	250	315	400	500	630	800	1k	1.25k	1.6k	2k	2.5k	3.15k	4k	5k	6.3k	8k	10k	12.5k	16k
A-WT Lp, dB	19.8	29.1	37.5	43.4	42.4	45.1	46.1	45.8	46.5	48.5	51.9	53.3	55.2	54.8	57.2	56.7	56.7	55.8	54.5	54.4	54.2	51.3	48.7	46.3	43.3	40.1	36.9	31.8	26.5
A-Wt Sound Pr. Level =																	<u>66.3 dB(A)</u>												

### CORRECTION FOR TONALITY

#### CORRECTION (a) :

MAX = 57.2

Max - X < 15

Freq, Hz	25	31.5	40	50	63	80	100	125	160	200	250	315	400	500	630	800	1k	1.25k	1.6k	2k	2.5k	3.15k	4k	5k	6.3k	8k	10k	12.5k	16k
A-WT Lp, dB	19.8	29.1	37.5	43.4	42.4	45.1	46.1	45.8	46.5	48.5	51.9	53.3	55.2	54.8	57.2	56.7	56.7	55.8	54.5	54.4	54.2	51.3	48.7	46.3	43.3	40.1	36.9	31.8	26.5
	0	0	0	43.4	42.4	45.1	46.1	45.8	46.5	48.5	51.9	53.3	55.2	54.8	57.2	56.7	56.7	55.8	54.5	54.4	54.2	51.3	48.7	46.3	43.3	0	0	0	0

#### CORRECTION (b) :

X - adjacent bands >1

	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
--	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

#### CORRECTION (c) :

X - mean of adjacent bands >3

	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
--	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Ftone=	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
--------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

### TONAL CORRECTION :

dB(A)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

TONAL CORR.= 0 dB(A)

## Appendix 4.9.1 Detailed Calculations of Fixed Plant Noise

### TONAL CORRECTION FOR MEASURED 1/3 OCTAVE NOISE LEVELS - PAIR OF BANDS: EPS2

#### MEASURED NOISE LEVELS :

Freq, Hz	25	31.5	40	50	63	80	100	125	160	200	250	315	400	500	630	800	1k	1.25k	1.6k	2k	2.5k	3.15k	4k	5k	6.3k	8k	10k	12.5k	16k
A-WT Lp, dB	19.8	29.1	37.5	43.4	42.4	45.1	46.1	45.8	46.5	48.5	51.9	53.3	55.2	54.8	57.2	56.7	56.7	55.8	54.5	54.4	54.2	51.3	48.7	46.3	43.3	40.1	36.9	31.8	26.5
A-Wt Sound Pr. Level =	<u>66.3 dB(A)</u>																												

#### CORRECTION FOR TONALITY

CORRECTION (a) :	MAX = 57.2																												
Max - Max of Xs < 15																													
Freq, Hz	25	31.5	40	50	63	80	100	125	160	200	250	315	400	500	630	800	1k	1.25k	1.6k	2k	2.5k	3.15k	4k	5k	6.3k	8k	10k	12.5k	16k
A Wt Lp, dB	19.8	29.1	37.5	43.4	42.4	45.1	46.1	45.8	46.5	48.5	51.9	53.3	55.2	54.8	57.2	56.7	56.7	55.8	54.5	54.4	54.2	51.3	48.7	46.3	43.3	40.1	36.9	31.8	26.5
Ave. Lp of pair	0	33.3	40.4	42.9	43.7	45.6	46.0	46.2	47.5	50.2	52.6	54.2	55.0	56.0	57.0	56.7	56.3	55.2	54.5	54.3	52.8	50.0	47.5	44.8	41.7	38.5	34.4	29.2	0
	0	0	40.4	42.9	43.7	45.6	46.0	46.2	47.5	50.2	52.6	54.2	55.0	56.0	57.0	56.7	56.3	55.2	54.5	54.3	52.8	50.0	47.5	44.8	41.7	0	0	0	0

#### CORRECTION (b) :

Mean of X - adjacent bands >1																													
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

#### CORRECTION (c) :

Mean of X - mean of adjacent bands >3																													
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ftone=	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

#### TONAL CORRECTION :

#### Pair of 1/3 octave bands starting with, Hz

	31.5	40	50	63	80	100	125	160	200	250	315	400	500	630	800	1k	1.25k	1.6k	2k	2.5k	3.15k	4k	5k	6.3k	8k	10k		
dB(A)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
TONAL CORR.=	<u>0 dB(A)</u>																											



## Appendix 4.9.1 Detailed Calculations of Fixed Plant Noise

### TONAL CORRECTION FOR MEASURED 1/3 OCTAVE NOISE LEVELS: EPS1

#### Evening Time

##### MEASURED NOISE LEVELS :

Freq, Hz	25	31.5	40	50	63	80	100	125	160	200	250	315	400	500	630	800	1k	1.25k	1.6k	2k	2.5k	3.15k	4k	5k	6.3k	8k	10k	12.5k	16k
A-WT Lp, dB	18.2	26.6	33.2	39.4	44.7	48.9	43.0	44.0	43.6	44.7	47.9	51.0	51.5	52.4	53.5	52.8	53.5	51.9	50.2	49.3	49.1	46.1	43.4	40.3	38.7	34.5	31.1	28.2	31.0
A-Wt Sound Pr. Level =	<u>62.7 dB(A)</u>																												

##### CORRECTION FOR TONALITY

##### CORRECTION (a) :

MAX = 53.5

Max - X < 15

Freq, Hz	25	31.5	40	50	63	80	100	125	160	200	250	315	400	500	630	800	1k	1.25k	1.6k	2k	2.5k	3.15k	4k	5k	6.3k	8k	10k	12.5k	16k
A-WT Lp, dB	18.2	26.6	33.2	39.4	44.7	48.9	43.0	44.0	43.6	44.7	47.9	51.0	51.5	52.4	53.5	52.8	53.5	51.9	50.2	49.3	49.1	46.1	43.4	40.3	38.7	34.5	31.1	28.2	31.0
	0	0	0	0	44.7	48.9	43.0	44.0	43.6	44.7	47.9	51.0	51.5	52.4	53.5	52.8	53.5	51.9	50.2	49.3	49.1	46.1	43.4	0	0	0	0	0	0

##### CORRECTION (b) :

X - adjacent bands >1

	0	0	0	0	0	48.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
--	---	---	---	---	---	------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

##### CORRECTION (c) :

X - mean of adjacent bands >3

	0	0	0	0	0	5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ftone=	0	0	0	0	0	5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

##### TONAL CORRECTION :

dB(A)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TONAL CORR.=	<u>0 dB(A)</u>																												

## Appendix 4.9.1 Detailed Calculations of Fixed Plant Noise

### TONAL CORRECTION FOR MEASURED 1/3 OCTAVE NOISE LEVELS - PAIR OF BANDS: EPS1

#### Evening Time

##### MEASURED NOISE LEVELS :

Freq, Hz	25	31.5	40	50	63	80	100	125	160	200	250	315	400	500	630	800	1k	1.25k	1.6k	2k	2.5k	3.15k	4k	5k	6.3k	8k	10k	12.5k	16k
A-WT Lp, dB	18.2	26.6	33.2	39.4	44.7	48.9	43.0	44.0	43.6	44.7	47.9	51.0	51.5	52.4	53.5	52.8	53.5	51.9	50.2	49.3	49.1	46.1	43.4	40.3	38.7	34.5	31.1	28.2	31.0
A-Wt Sound Pr. Level =	<u>62.7 dB(A)</u>																												

##### CORRECTION FOR TONALITY

CORRECTION (a) :	MAX = 53.5																												
Max - Max of Xs < 15																													
Freq, Hz	25	31.5	40	50	63	80	100	125	160	200	250	315	400	500	630	800	1k	1.25k	1.6k	2k	2.5k	3.15k	4k	5k	6.3k	8k	10k	12.5k	16k
A Wt Lp, dB	18.2	26.6	33.2	39.4	44.7	48.9	43.0	44.0	43.6	44.7	47.9	51.0	51.5	52.4	53.5	52.8	53.5	51.9	50.2	49.3	49.1	46.1	43.4	40.3	38.7	34.5	31.1	28.2	31.0
Ave. Lp of pair	0	29.9	36.3	42.0	46.8	45.9	43.5	43.8	44.1	46.3	49.4	51.3	52.0	52.9	53.2	53.2	52.7	51.1	49.8	49.2	47.6	44.7	41.8	39.5	36.6	32.8	29.7	29.6	0
	0	0	0	42.0	46.8	45.9	43.5	43.8	44.1	46.3	49.4	51.3	52.0	52.9	53.2	53.2	52.7	51.1	49.8	49.2	47.6	44.7	41.8	0	0	0	0	0	0

##### CORRECTION (b) :

Mean of X - adjacent bands >1																													
	0	0	0	0	46.8	45.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

##### CORRECTION (c) :

Mean of X - mean of adjacent bands >3																													
	0	0	0	0	5.6	1.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ftone=	0	0	0	0	5.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

##### TONAL CORRECTION :

##### Pair of 1/3 octave bands starting with, Hz

	31.5	40	50	63	80	100	125	160	200	250	315	400	500	630	800	1k	1.25k	1.6k	2k	2.5k	3.15k	4k	5k	6.3k	8k	10k		
dB(A)	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
TONAL CORR.=	<u>0 dB(A)</u>																											

## Appendix 4.9.1 Detailed Calculations of Fixed Plant Noise

### TONAL CORRECTION FOR MEASURED 1/3 OCTAVE NOISE LEVELS: EPS1

#### Night Time

##### MEASURED NOISE LEVELS :

Freq, Hz	25	31.5	40	50	63	80	100	125	160	200	250	315	400	500	630	800	1k	1.25k	1.6k	2k	2.5k	3.15k	4k	5k	6.3k	8k	10k	12.5k	16k
A-WT Lp, dB	12.5	19.1	27.2	38.2	35.2	36.1	39.9	38.4	40.6	41.4	44.7	47.8	50.0	50.2	53.3	50.4	50.8	48.5	47.2	46.4	47.3	45.4	41.8	38.6	34.9	30.4	27.0	21.4	15.8
A-Wt Sound Pr. Level =															<u>60.3 dB(A)</u>														

##### CORRECTION FOR TONALITY

##### CORRECTION (a) :

MAX = 53.3

Max - X < 15

Freq, Hz	25	31.5	40	50	63	80	100	125	160	200	250	315	400	500	630	800	1k	1.25k	1.6k	2k	2.5k	3.15k	4k	5k	6.3k	8k	10k	12.5k	16k
A-WT Lp, dB	12.5	19.1	27.2	38.2	35.2	36.1	39.9	38.4	40.6	41.4	44.7	47.8	50.0	50.2	53.3	50.4	50.8	48.5	47.2	46.4	47.3	45.4	41.8	38.6	34.9	30.4	27.0	21.4	15.8
	0	0	0	0	0	0	0	0	0	0	44.7	47.8	50.0	50.2	53.3	50.4	50.8	48.5	47.2	46.4	47.3	45.4	0	0	0	0	0	0	0

##### CORRECTION (b) :

X - adjacent bands >1

	0	0	0	0	0	0	0	0	0	0	0	0	0	0	53.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
--	---	---	---	---	---	---	---	---	---	---	---	---	---	---	------	---	---	---	---	---	---	---	---	---	---	---	---	---	---

##### CORRECTION (c) :

X - mean of adjacent bands >3

	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ftone=	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

##### TONAL CORRECTION :

dB(A)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TONAL CORR.=															<u>3 dB(A)</u>														

## Appendix 4.9.1 Detailed Calculations of Fixed Plant Noise

### TONAL CORRECTION FOR MEASURED 1/3 OCTAVE NOISE LEVELS - PAIR OF BANDS: EPS1

#### Night Time

#### MEASURED NOISE LEVELS :

Freq, Hz	25	31.5	40	50	63	80	100	125	160	200	250	315	400	500	630	800	1k	1.25k	1.6k	2k	2.5k	3.15k	4k	5k	6.3k	8k	10k	12.5k	16k
A-WT Lp, dB	12.5	19.1	27.2	38.2	35.2	36.1	39.9	38.4	40.6	41.4	44.7	47.8	50.0	50.2	53.3	50.4	50.8	48.5	47.2	46.4	47.3	45.4	41.8	38.6	34.9	30.4	27.0	21.4	15.8
A-Wt Sound Pr. Level =	<u>60.3 dB(A)</u>																												

#### CORRECTION FOR TONALITY

CORRECTION (a) : MAX = 53.3

Max - Max of Xs < 15

Freq, Hz	25	31.5	40	50	63	80	100	125	160	200	250	315	400	500	630	800	1k	1.25k	1.6k	2k	2.5k	3.15k	4k	5k	6.3k	8k	10k	12.5k	16k
A Wt Lp, dB	12.5	19.1	27.2	38.2	35.2	36.1	39.9	38.4	40.6	41.4	44.7	47.8	50.0	50.2	53.3	50.4	50.8	48.5	47.2	46.4	47.3	45.4	41.8	38.6	34.9	30.4	27.0	21.4	15.8
Ave. Lp of pair	0	23.2	32.7	36.7	35.7	38.0	39.1	39.5	41.0	43.1	46.2	48.9	50.1	51.8	51.9	50.6	49.7	47.9	46.8	46.9	46.3	43.6	40.2	36.8	32.7	28.7	24.2	18.6	0
	0	0	0	0	0	0	0	0	0	43.1	46.2	48.9	50.1	51.8	51.9	50.6	49.7	47.9	46.8	46.9	46.3	43.6	0	0	0	0	0	0	0

#### CORRECTION (b) :

Mean of X - adjacent bands >1

	0	0	0	0	0	0	0	0	0	0	0	0	0	0	51.8	51.9	0	0	0	0	0	0	0	0	0	0	0	0	0
--	---	---	---	---	---	---	---	---	---	---	---	---	---	---	------	------	---	---	---	---	---	---	---	---	---	---	---	---	---

#### CORRECTION (c) :

Mean of X - mean of adjacent bands >3

	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.6	1.4	0	0	0	0	0	0	0	0	0	0	0	0	0
--	---	---	---	---	---	---	---	---	---	---	---	---	---	---	-----	-----	---	---	---	---	---	---	---	---	---	---	---	---	---

Ftone=	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
--------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

#### TONAL CORRECTION :

Pair of 1/3 octave bands starting with, Hz

	31.5	40	50	63	80	100	125	160	200	250	315	400	500	630	800	1k	1.25k	1.6k	2k	2.5k	3.15k	4k	5k	6.3k	8k	10k		
dB(A)	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
TONAL CORR.=	<u>0 dB(A)</u>																											

# Appendix 4.9.1 Detailed Calculations of Fixed Plant Noise

## TONAL CORRECTION FOR MEASURED 1/3 OCTAVE NOISE LEVELS: EPS3

### MEASURED NOISE LEVELS :

Freq, Hz	25	31.5	40	50	63	80	100	125	160	200	250	315	400	500	630	800	1k	1.25k	1.6k	2k	2.5k	3.15k	4k	5k	6.3k	8k	10k	12.5k	16k
A-WT Lp, dB	17.7	21.6	27.1	32.6	33.6	34.2	36.0	37.5	40.6	43.7	43.7	44.2	44.7	45.3	46.0	46.1	47.1	46.1	45.8	47.9	46.1	43.9	40.1	36.3	35.0	32.1	30.5	27.8	23.1
A-Wt Sound Pr. Level =																	<u>57.2 dB(A)</u>												

### CORRECTION FOR TONALITY

#### CORRECTION (a) :

MAX = 47.9

Max - X < 15

Freq, Hz	25	31.5	40	50	63	80	100	125	160	200	250	315	400	500	630	800	1k	1.25k	1.6k	2k	2.5k	3.15k	4k	5k	6.3k	8k	10k	12.5k	16k
A-WT Lp, dB	17.7	21.6	27.1	32.6	33.6	34.2	36.0	37.5	40.6	43.7	43.7	44.2	44.7	45.3	46.0	46.1	47.1	46.1	45.8	47.9	46.1	43.9	40.1	36.3	35.0	32.1	30.5	27.8	23.1
	0	0	0	0	33.6	34.2	36.0	37.5	40.6	43.7	43.7	44.2	44.7	45.3	46.0	46.1	47.1	46.1	45.8	47.9	46.1	43.9	40.1	36.3	35.0	0	0	0	0

#### CORRECTION (b) :

X - adjacent bands >1

	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	47.1	0	0	47.9	0	0	0	0	0	0	0	0	0
--	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	------	---	---	------	---	---	---	---	---	---	---	---	---

#### CORRECTION (c) :

X - mean of adjacent bands >3

	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.1	0	0	2.0	0	0	0	0	0	0	0	0	0
Ftone=	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

### TONAL CORRECTION :

dB(A)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TONAL CORR.=																	<u>0 dB(A)</u>												

## Appendix 4.9.1 Detailed Calculations of Fixed Plant Noise

### TONAL CORRECTION FOR MEASURED 1/3 OCTAVE NOISE LEVELS - PAIR OF BANDS: EPS3

#### MEASURED NOISE LEVELS :

Freq, Hz	25	31.5	40	50	63	80	100	125	160	200	250	315	400	500	630	800	1k	1.25k	1.6k	2k	2.5k	3.15k	4k	5k	6.3k	8k	10k	12.5k	16k
A-WT Lp, dB	17.7	21.6	27.1	32.6	33.6	34.2	36.0	37.5	40.6	43.7	43.7	44.2	44.7	45.3	46.0	46.1	47.1	46.1	45.8	47.9	46.1	43.9	40.1	36.3	35.0	32.1	30.5	27.8	23.1
A-Wt Sound Pr. Level =	<u>57.2 dB(A)</u>																												

#### CORRECTION FOR TONALITY

CORRECTION (a) : MAX = 47.9

Max - Max of Xs < 15

Freq, Hz	25	31.5	40	50	63	80	100	125	160	200	250	315	400	500	630	800	1k	1.25k	1.6k	2k	2.5k	3.15k	4k	5k	6.3k	8k	10k	12.5k	16k
A Wt Lp, dB	17.7	21.6	27.1	32.6	33.6	34.2	36.0	37.5	40.6	43.7	43.7	44.2	44.7	45.3	46.0	46.1	47.1	46.1	45.8	47.9	46.1	43.9	40.1	36.3	35.0	32.1	30.5	27.8	23.1
Ave. Lp of pair	0	24.3	29.9	33.1	33.9	35.1	36.8	39.1	42.1	43.7	43.9	44.5	45.0	45.6	46.0	46.6	46.6	45.9	46.8	47.0	45.0	42.0	38.2	35.6	33.5	31.3	29.1	25.5	0
	0	0	0	33.1	33.9	35.1	36.8	39.1	42.1	43.7	43.9	44.5	45.0	45.6	46.0	46.6	46.6	45.9	46.8	47.0	45.0	42.0	38.2	35.6	33.5	0	0	0	0

#### CORRECTION (b) :

Mean of X - adjacent bands >1

	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	47.0	0	0	0	0	0	0	0	0
--	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	------	---	---	---	---	---	---	---	---

#### CORRECTION (c) :

Mean of X - mean of adjacent bands >3

	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.1	0	0	0	0	0	0	0	0
--	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	-----	---	---	---	---	---	---	---	---

Ftone=	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
--------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

#### TONAL CORRECTION :

Pair of 1/3 octave bands starting with, Hz

	31.5	40	50	63	80	100	125	160	200	250	315	400	500	630	800	1k	1.25k	1.6k	2k	2.5k	3.15k	4k	5k	6.3k	8k	10k		
dB(A)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
TONAL CORR.=	<u>0 dB(A)</u>																											

## Appendix 4.9.1 Detailed Calculations of Fixed Plant Noise

### TONAL CORRECTION FOR MEASURED 1/3 OCTAVE NOISE LEVELS: EPS1

#### Evening Time

##### MEASURED NOISE LEVELS :

Freq, Hz	25	31.5	40	50	63	80	100	125	160	200	250	315	400	500	630	800	1k	1.25k	1.6k	2k	2.5k	3.15k	4k	5k	6.3k	8k	10k	12.5k	16k
A-WT Lp, dB	15.4	19.8	25.5	30.6	33.7	35.7	36.6	37.3	38.8	39.2	38.9	39.3	39.9	41.9	43.7	45.9	46.8	46.4	45.9	45.8	45.9	44.7	42.6	41.2	40.0	36.5	33.7	29.5	25.2
A-Wt Sound Pr. Level =																	<u>56.3 dB(A)</u>												

##### CORRECTION FOR TONALITY

##### CORRECTION (a) :

MAX = 46.8

Max - X < 15

Freq, Hz	25	31.5	40	50	63	80	100	125	160	200	250	315	400	500	630	800	1k	1.25k	1.6k	2k	2.5k	3.15k	4k	5k	6.3k	8k	10k	12.5k	16k
A-WT Lp, dB	15.4	19.8	25.5	30.6	33.7	35.7	36.6	37.3	38.8	39.2	38.9	39.3	39.9	41.9	43.7	45.9	46.8	46.4	45.9	45.8	45.9	44.7	42.6	41.2	40.0	36.5	33.7	29.5	25.2
	0	0	0	0	33.7	35.7	36.6	37.3	38.8	39.2	38.9	39.3	39.9	41.9	43.7	45.9	46.8	46.4	45.9	45.8	45.9	44.7	42.6	41.2	40.0	36.5	33.7	0	0

##### CORRECTION (b) :

X - adjacent bands >1

0 0

##### CORRECTION (c) :

X - mean of adjacent bands >3

0 0

Ftone= 0

##### TONAL CORRECTION :

dB(A) 0

TONAL CORR.= 0 dB(A)

## Appendix 4.9.1 Detailed Calculations of Fixed Plant Noise

### TONAL CORRECTION FOR MEASURED 1/3 OCTAVE NOISE LEVELS - PAIR OF BANDS: EPS1

#### Evening Time

##### MEASURED NOISE LEVELS :

Freq, Hz	25	31.5	40	50	63	80	100	125	160	200	250	315	400	500	630	800	1k	1.25k	1.6k	2k	2.5k	3.15k	4k	5k	6.3k	8k	10k	12.5k	16k
A-WT Lp, dB	15.4	19.8	25.5	30.6	33.7	35.7	36.6	37.3	38.8	39.2	38.9	39.3	39.9	41.9	43.7	45.9	46.8	46.4	45.9	45.8	45.9	44.7	42.6	41.2	40.0	36.5	33.7	29.5	25.2
A-Wt Sound Pr. Level =	<u>56.3 dB(A)</u>																												

##### CORRECTION FOR TONALITY

CORRECTION (a) : MAX = 46.8

Max - Max of Xs < 15

Freq, Hz	25	31.5	40	50	63	80	100	125	160	200	250	315	400	500	630	800	1k	1.25k	1.6k	2k	2.5k	3.15k	4k	5k	6.3k	8k	10k	12.5k	16k
A Wt Lp, dB	15.4	19.8	25.5	30.6	33.7	35.7	36.6	37.3	38.8	39.2	38.9	39.3	39.9	41.9	43.7	45.9	46.8	46.4	45.9	45.8	45.9	44.7	42.6	41.2	40.0	36.5	33.7	29.5	25.2
Ave. Lp of pair	0	22.7	28.1	32.2	34.7	36.2	36.9	38.1	39.0	39.0	39.1	39.6	40.9	42.8	44.8	46.3	46.6	46.2	45.8	45.8	45.3	43.7	41.9	40.6	38.2	35.1	31.6	27.4	0
	0	0	0	32.2	34.7	36.2	36.9	38.1	39.0	39.0	39.1	39.6	40.9	42.8	44.8	46.3	46.6	46.2	45.8	45.8	45.3	43.7	41.9	40.6	38.2	35.1	31.6	0	0

##### CORRECTION (b) :

Mean of X - adjacent bands >1

	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
--	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

##### CORRECTION (c) :

Mean of X - mean of adjacent bands >3

	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
--	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Ftone= 

0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

##### TONAL CORRECTION :

Pair of 1/3 octave bands starting with, Hz

	31.5	40	50	63	80	100	125	160	200	250	315	400	500	630	800	1k	1.25k	1.6k	2k	2.5k	3.15k	4k	5k	6.3k	8k	10k		
dB(A)	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
TONAL CORR.=	<u><b>0</b></u> dB(A)																											



## Appendix 4.9.1 Detailed Calculations of Fixed Plant Noise

### TONAL CORRECTION FOR MEASURED 1/3 OCTAVE NOISE LEVELS: EPS1

#### Night Time

#### MEASURED NOISE LEVELS :

Freq, Hz	25	31.5	40	50	63	80	100	125	160	200	250	315	400	500	630	800	1k	1.25k	1.6k	2k	2.5k	3.15k	4k	5k	6.3k	8k	10k	12.5k	16k
A-WT Lp, dB	13.5	17.5	27.0	33.3	34.4	34.6	37.2	37.9	42.5	41.1	43.3	47.5	50.4	46.3	43.3	42.6	43.7	42.8	42.5	40.4	36.8	35.2	32.6	29.7	28.4	25.5	21.7	17.8	12.3
A-Wt Sound Pr. Level =																<u>56.1 dB(A)</u>													

#### CORRECTION FOR TONALITY

#### CORRECTION (a) :

MAX = 50.4

Max - X < 15

Freq, Hz	25	31.5	40	50	63	80	100	125	160	200	250	315	400	500	630	800	1k	1.25k	1.6k	2k	2.5k	3.15k	4k	5k	6.3k	8k	10k	12.5k	16k
A-WT Lp, dB	13.5	17.5	27.0	33.3	34.4	34.6	37.2	37.9	42.5	41.1	43.3	47.5	50.4	46.3	43.3	42.6	43.7	42.8	42.5	40.4	36.8	35.2	32.6	29.7	28.4	25.5	21.7	17.8	12.3
	0	0	0	33.3	34.4	34.6	37.2	37.9	42.5	41.1	43.3	47.5	50.4	46.3	43.3	42.6	43.7	42.8	42.5	40.4	36.8	35.2	0	0	0	0	0	0	0

#### CORRECTION (b) :

X - adjacent bands >1

	0	0	0	0	0	0	0	0	42.5	0	0	0	50.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
--	---	---	---	---	---	---	---	---	------	---	---	---	------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

#### CORRECTION (c) :

X - mean of adjacent bands >3

	0	0	0	0	0	0	0	0	3.1	0	0	0	3.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ftone=	0	0	0	0	0	0	0	0	3.1	0	0	0	3.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

#### TONAL CORRECTION :

dB(A)	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TONAL CORR.=																<u>3 dB(A)</u>													

## Appendix 4.9.1 Detailed Calculations of Fixed Plant Noise

### TONAL CORRECTION FOR MEASURED 1/3 OCTAVE NOISE LEVELS - PAIR OF BANDS: EPS1

#### Night Time

#### MEASURED NOISE LEVELS :

Freq, Hz	25	31.5	40	50	63	80	100	125	160	200	250	315	400	500	630	800	1k	1.25k	1.6k	2k	2.5k	3.15k	4k	5k	6.3k	8k	10k	12.5k	16k
A-WT Lp, dB	13.5	17.5	27.0	33.3	34.4	34.6	37.2	37.9	42.5	41.1	43.3	47.5	50.4	46.3	43.3	42.6	43.7	42.8	42.5	40.4	36.8	35.2	32.6	29.7	28.4	25.5	21.7	17.8	12.3
A-Wt Sound Pr. Level =	<u>56.1 dB(A)</u>																												

#### CORRECTION FOR TONALITY

CORRECTION (a) : MAX = 50.4

Max - Max of Xs < 15

Freq, Hz	25	31.5	40	50	63	80	100	125	160	200	250	315	400	500	630	800	1k	1.25k	1.6k	2k	2.5k	3.15k	4k	5k	6.3k	8k	10k	12.5k	16k
A Wt Lp, dB	13.5	17.5	27.0	33.3	34.4	34.6	37.2	37.9	42.5	41.1	43.3	47.5	50.4	46.3	43.3	42.6	43.7	42.8	42.5	40.4	36.8	35.2	32.6	29.7	28.4	25.5	21.7	17.8	12.3
Ave. Lp of pair	0	22.3	30.2	33.8	34.5	35.9	37.5	40.2	41.8	42.2	45.4	49.0	48.4	44.8	43.0	43.1	43.2	42.7	41.5	38.6	36.0	33.9	31.1	29.1	27.0	23.6	19.7	15.1	0
	0	0	30.2	33.8	34.5	35.9	37.5	40.2	41.8	42.2	45.4	49.0	48.4	44.8	43.0	43.1	43.2	42.7	41.5	38.6	36.0	33.9	0	0	0	0	0	0	0

#### CORRECTION (b) :

Mean of X - adjacent bands >1

	0	0	0	0	0	0	0	0	0	0	0	49.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
--	---	---	---	---	---	---	---	---	---	---	---	------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

#### CORRECTION (c) :

Mean of X - mean of adjacent bands >3

	0	0	0	0	0	0	0	0	0	0	0	4.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
--	---	---	---	---	---	---	---	---	---	---	---	-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Ftone=	0	0	0	0	0	0	0	0	0	0	0	4.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
--------	---	---	---	---	---	---	---	---	---	---	---	-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

#### TONAL CORRECTION :

Pair of 1/3 octave bands starting with, Hz

	31.5	40	50	63	80	100	125	160	200	250	315	400	500	630	800	1k	1.25k	1.6k	2k	2.5k	3.15k	4k	5k	6.3k	8k	10k	
dB(A)	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
TONAL CORR.=	<u>3 dB(A)</u>																										

# Appendix 4.9.1 Detailed Calculations of Fixed Plant Noise

## TONAL CORRECTION FOR MEASURED 1/3 OCTAVE NOISE LEVELS: EPS4

### MEASURED NOISE LEVELS :

Freq, Hz	25	31.5	40	50	63	80	100	125	160	200	250	315	400	500	630	800	1k	1.25k	1.6k	2k	2.5k	3.15k	4k	5k	6.3k	8k	10k	12.5k	16k
A-WT Lp, dB	24.5	26.8	29.2	33.6	34.4	35.2	36.7	39.5	42.6	45.2	47.2	48.2	48.7	49.6	49.0	50.6	52.9	52.2	51.3	49.9	50.8	52.2	49.3	47.3	45.7	42.6	40.7	37.4	39.1
A-Wt Sound Pr. Level =																	<u>62.2 dB(A)</u>												

### CORRECTION FOR TONALITY

#### CORRECTION (a) :

MAX = 52.9

Max - X < 15

Freq, Hz	25	31.5	40	50	63	80	100	125	160	200	250	315	400	500	630	800	1k	1.25k	1.6k	2k	2.5k	3.15k	4k	5k	6.3k	8k	10k	12.5k	16k
A-WT Lp, dB	24.5	26.8	29.2	33.6	34.4	35.2	36.7	39.5	42.6	45.2	47.2	48.2	48.7	49.6	49.0	50.6	52.9	52.2	51.3	49.9	50.8	52.2	49.3	47.3	45.7	42.6	40.7	37.4	39.1
	0	0	0	0	0	0	0	39.5	42.6	45.2	47.2	48.2	48.7	49.6	49.0	50.6	52.9	52.2	51.3	49.9	50.8	52.2	49.3	47.3	45.7	42.6	40.7	0	39.1

#### CORRECTION (b) :

X - adjacent bands >1

	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
--	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

#### CORRECTION (c) :

X - mean of adjacent bands >3

	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.2	0	0	0	0	0	0	0
Ftone=	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

### TONAL CORRECTION :

dB(A)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TONAL CORR.=																	<u>0 dB(A)</u>												

## Appendix 4.9.1 Detailed Calculations of Fixed Plant Noise

### TONAL CORRECTION FOR MEASURED 1/3 OCTAVE NOISE LEVELS - PAIR OF BANDS: EPS4

#### MEASURED NOISE LEVELS :

Freq, Hz	25	31.5	40	50	63	80	100	125	160	200	250	315	400	500	630	800	1k	1.25k	1.6k	2k	2.5k	3.15k	4k	5k	6.3k	8k	10k	12.5k	16k
A-WT Lp, dB	24.5	26.8	29.2	33.6	34.4	35.2	36.7	39.5	42.6	45.2	47.2	48.2	48.7	49.6	49.0	50.6	52.9	52.2	51.3	49.9	50.8	52.2	49.3	47.3	45.7	42.6	40.7	37.4	39.1
A-Wt Sound Pr. Level =																	<u>62.2 dB(A)</u>												

#### CORRECTION FOR TONALITY

CORRECTION (a) :	MAX =																52.9															
Max - Max of Xs < 15																																
Freq, Hz	25	31.5	40	50	63	80	100	125	160	200	250	315	400	500	630	800	1k	1.25k	1.6k	2k	2.5k	3.15k	4k	5k	6.3k	8k	10k	12.5k	16k			
A Wt Lp, dB	24.5	26.8	29.2	33.6	34.4	35.2	36.7	39.5	42.6	45.2	47.2	48.2	48.7	49.6	49.0	50.6	52.9	52.2	51.3	49.9	50.8	52.2	49.3	47.3	45.7	42.6	40.7	37.4	39.1			
Ave. Lp of pair	0	28.0	31.4	34.0	34.8	36.0	38.1	41.0	43.9	46.2	47.7	48.5	49.1	49.3	49.8	51.7	52.5	51.7	50.6	50.3	51.5	50.8	48.3	46.5	44.2	41.6	39.0	38.3	0			
	0	0	0	0	0	0	38.1	41.0	43.9	46.2	47.7	48.5	49.1	49.3	49.8	51.7	52.5	51.7	50.6	50.3	51.5	50.8	48.3	46.5	44.2	41.6	39.0	38.3	0			

#### CORRECTION (b) :

Mean of X - adjacent bands >1																																
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	52.5	0	0	0	51.5	0	0	0	0	0	0	0	0		

#### CORRECTION (c) :

Mean of X - mean of adjacent bands >3																																
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.6	0	0	0	1.9	0	0	0	0	0	0	0	0			
Ftone=	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			

#### TONAL CORRECTION :

#### Pair of 1/3 octave bands starting with, Hz

	31.5	40	50	63	80	100	125	160	200	250	315	400	500	630	800	1k	1.25k	1.6k	2k	2.5k	3.15k	4k	5k	6.3k	8k	10k	
dB(A)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TONAL CORR.=																	<u>0 dB(A)</u>										

## Appendix 4.9.1 Detailed Calculations of Fixed Plant Noise

### TONAL CORRECTION FOR MEASURED 1/3 OCTAVE NOISE LEVELS: EPS1

#### Evening Time

##### MEASURED NOISE LEVELS :

Freq, Hz	25	31.5	40	50	63	80	100	125	160	200	250	315	400	500	630	800	1k	1.25k	1.6k	2k	2.5k	3.15k	4k	5k	6.3k	8k	10k	12.5k	16k
A-WT Lp, dB	15.0	17.9	23.8	36.6	46.6	36.6	39.1	46.1	40.8	42.1	43.3	43.9	43.7	43.6	43.7	44.8	48.5	46.8	44.2	43.5	40.5	39.3	36.8	34.2	31.6	32.4	32.1	31.6	33.6
A-Wt Sound Pr. Level =																	<u>56.8 dB(A)</u>												

##### CORRECTION FOR TONALITY

##### CORRECTION (a) :

MAX = 48.5

Max - X < 15

Freq, Hz	25	31.5	40	50	63	80	100	125	160	200	250	315	400	500	630	800	1k	1.25k	1.6k	2k	2.5k	3.15k	4k	5k	6.3k	8k	10k	12.5k	16k
A-WT Lp, dB	15.0	17.9	23.8	36.6	46.6	36.6	39.1	46.1	40.8	42.1	43.3	43.9	43.7	43.6	43.7	44.8	48.5	46.8	44.2	43.5	40.5	39.3	36.8	34.2	31.6	32.4	32.1	31.6	33.6
	0	0	0	0	46.6	0	39.1	46.1	40.8	42.1	43.3	43.9	43.7	43.6	43.7	44.8	48.5	46.8	44.2	43.5	40.5	39.3	0	0	0	0	0	0	0

##### CORRECTION (b) :

X - adjacent bands >1

	0	0	0	0	46.6	0	0	46.1	0	0	0	0	0	0	0	0	48.5	0	0	0	0	0	0	0	0	0	0	0	0
--	---	---	---	---	------	---	---	------	---	---	---	---	---	---	---	---	------	---	---	---	---	---	---	---	---	---	---	---	---

##### CORRECTION (c) :

X - mean of adjacent bands >3

	0	0	0	0	10.0	0	0	6.1	0	0	0	0	0	0	0	0	2.7	0	0	0	0	0	0	0	0	0	0	0	0
Ftone=	0	0	0	0	10.0	0	0	6.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

##### TONAL CORRECTION :

dB(A)	0	0	0	6	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TONAL CORR.=																	<u>6 dB(A)</u>												

## Appendix 4.9.1 Detailed Calculations of Fixed Plant Noise

### TONAL CORRECTION FOR MEASURED 1/3 OCTAVE NOISE LEVELS - PAIR OF BANDS: EPS1

#### Evening Time

##### MEASURED NOISE LEVELS :

Freq, Hz	25	31.5	40	50	63	80	100	125	160	200	250	315	400	500	630	800	1k	1.25k	1.6k	2k	2.5k	3.15k	4k	5k	6.3k	8k	10k	12.5k	16k
A-WT Lp, dB	15.0	17.9	23.8	36.6	46.6	36.6	39.1	46.1	40.8	42.1	43.3	43.9	43.7	43.6	43.7	44.8	48.5	46.8	44.2	43.5	40.5	39.3	36.8	34.2	31.6	32.4	32.1	31.6	33.6
A-Wt Sound Pr. Level =																	<u>56.8 dB(A)</u>												

##### CORRECTION FOR TONALITY

CORRECTION (a) : MAX = 48.5

Max - Max of Xs < 15

Freq, Hz	25	31.5	40	50	63	80	100	125	160	200	250	315	400	500	630	800	1k	1.25k	1.6k	2k	2.5k	3.15k	4k	5k	6.3k	8k	10k	12.5k	16k
A Wt Lp, dB	15.0	17.9	23.8	36.6	46.6	36.6	39.1	46.1	40.8	42.1	43.3	43.9	43.7	43.6	43.7	44.8	48.5	46.8	44.2	43.5	40.5	39.3	36.8	34.2	31.6	32.4	32.1	31.6	33.6
Ave. Lp of pair	0	20.9	30.2	41.6	41.6	37.8	42.6	43.5	41.5	42.7	43.6	43.8	43.6	43.7	44.2	46.6	47.6	45.5	43.8	42.0	39.9	38.1	35.5	32.9	32.0	32.2	31.9	32.6	0
	0	0	0	41.6	41.6	37.8	42.6	43.5	41.5	42.7	43.6	43.8	43.6	43.7	44.2	46.6	47.6	45.5	43.8	42.0	39.9	38.1	0	0	0	0	0	0	0

##### CORRECTION (b) :

Mean of X - adjacent bands >1

	0	0	0	41.6	41.6	0	42.6	43.5	0	0	0	0	0	0	0	0	47.6	0	0	0	0	0	0	0	0	0	0	0
--	---	---	---	------	------	---	------	------	---	---	---	---	---	---	---	---	------	---	---	---	---	---	---	---	---	---	---	---

##### CORRECTION (c) :

Mean of X - mean of adjacent bands >3

	0	0	0	11.3	3.8	0	3.8	2.9	0	0	0	0	0	0	0	0	3.2	0	0	0	0	0	0	0	0	0	0	0
--	---	---	---	------	-----	---	-----	-----	---	---	---	---	---	---	---	---	-----	---	---	---	---	---	---	---	---	---	---	---

Ftone=	0	0	0	11.3	3.8	0	3.8	0	0	0	0	0	0	0	0	0	3.2	0	0	0	0	0	0	0	0	0	0	0
--------	---	---	---	------	-----	---	-----	---	---	---	---	---	---	---	---	---	-----	---	---	---	---	---	---	---	---	---	---	---

##### TONAL CORRECTION :

Pair of 1/3 octave bands starting with, Hz

	31.5	40	50	63	80	100	125	160	200	250	315	400	500	630	800	1k	1.25k	1.6k	2k	2.5k	3.15k	4k	5k	6.3k	8k	10k	
dB(A)	<b>0</b>	<b>0</b>	<b>6</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	
TONAL CORR.=																	<u>6 dB(A)</u>										

## Appendix 4.9.1 Detailed Calculations of Fixed Plant Noise

### TONAL CORRECTION FOR MEASURED 1/3 OCTAVE NOISE LEVELS: EPS1

#### Night Time

##### MEASURED NOISE LEVELS :

Freq, Hz	25	31.5	40	50	63	80	100	125	160	200	250	315	400	500	630	800	1k	1.25k	1.6k	2k	2.5k	3.15k	4k	5k	6.3k	8k	10k	12.5k	16k
A-WT Lp, dB	11.5	17.0	25.0	31.2	30.7	32.4	35.6	38.2	43.9	46.0	45.4	47.5	50.5	47.0	46.0	49.5	52.2	54.7	52.8	50.6	50.2	49.3	46.2	43.6	41.3	39.3	34.8	30.8	25.5
A-Wt Sound Pr. Level =	<u>61.8 dB(A)</u>																												

##### CORRECTION FOR TONALITY

##### CORRECTION (a) :

MAX = 54.7

Max - X < 15

Freq, Hz	25	31.5	40	50	63	80	100	125	160	200	250	315	400	500	630	800	1k	1.25k	1.6k	2k	2.5k	3.15k	4k	5k	6.3k	8k	10k	12.5k	16k
A-WT Lp, dB	11.5	17.0	25.0	31.2	30.7	32.4	35.6	38.2	43.9	46.0	45.4	47.5	50.5	47.0	46.0	49.5	52.2	54.7	52.8	50.6	50.2	49.3	46.2	43.6	41.3	39.3	34.8	30.8	25.5
	0	0	0	0	0	0	0	38.2	43.9	46.0	45.4	47.5	50.5	47.0	46.0	49.5	52.2	54.7	52.8	50.6	50.2	49.3	46.2	43.6	41.3	39.3	0	0	0

##### CORRECTION (b) :

X - adjacent bands >1

	0	0	0	0	0	0	0	0	0	0	0	0	50.5	0	0	0	0	54.7	0	0	0	0	0	0	0	0	0	0	0
--	---	---	---	---	---	---	---	---	---	---	---	---	------	---	---	---	---	------	---	---	---	---	---	---	---	---	---	---	---

##### CORRECTION (c) :

X - mean of adjacent bands >3

	0	0	0	0	0	0	0	0	0	0	0	0	3.2	0	0	0	0	2.1	0	0	0	0	0	0	0	0	0	0	0
Ftone=	0	0	0	0	0	0	0	0	0	0	0	0	3.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

##### TONAL CORRECTION :

dB(A)	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TONAL CORR.=	<u>3 dB(A)</u>																												

## Appendix 4.9.1 Detailed Calculations of Fixed Plant Noise

### TONAL CORRECTION FOR MEASURED 1/3 OCTAVE NOISE LEVELS - PAIR OF BANDS: EPS1

#### Night Time

#### MEASURED NOISE LEVELS :

Freq, Hz	25	31.5	40	50	63	80	100	125	160	200	250	315	400	500	630	800	1k	1.25k	1.6k	2k	2.5k	3.15k	4k	5k	6.3k	8k	10k	12.5k	16k
A-WT Lp, dB	11.5	17.0	25.0	31.2	30.7	32.4	35.6	38.2	43.9	46.0	45.4	47.5	50.5	47.0	46.0	49.5	52.2	54.7	52.8	50.6	50.2	49.3	46.2	43.6	41.3	39.3	34.8	30.8	25.5
A-Wt Sound Pr. Level =	<u>61.8 dB(A)</u>																												

#### CORRECTION FOR TONALITY

CORRECTION (a) : MAX = 54.7

Max - Max of Xs < 15

Freq, Hz	25	31.5	40	50	63	80	100	125	160	200	250	315	400	500	630	800	1k	1.25k	1.6k	2k	2.5k	3.15k	4k	5k	6.3k	8k	10k	12.5k	16k
A Wt Lp, dB	11.5	17.0	25.0	31.2	30.7	32.4	35.6	38.2	43.9	46.0	45.4	47.5	50.5	47.0	46.0	49.5	52.2	54.7	52.8	50.6	50.2	49.3	46.2	43.6	41.3	39.3	34.8	30.8	25.5
Ave. Lp of pair	0	21.0	28.1	30.9	31.5	34.0	36.9	41.1	44.9	45.7	46.4	49.0	48.8	46.5	47.8	50.9	53.5	53.7	51.7	50.4	49.7	47.7	44.9	42.4	40.3	37.1	32.8	28.1	0
	0	0	0	0	0	0	36.9	41.1	44.9	45.7	46.4	49.0	48.8	46.5	47.8	50.9	53.5	53.7	51.7	50.4	49.7	47.7	44.9	42.4	40.3	37.1	0	0	0

#### CORRECTION (b) :

Mean of X - adjacent bands >1

	0	0	0	0	0	0	0	0	0	0	0	49.0	48.8	0	0	0	0	53.7	0	0	0	0	0	0	0	0	0	0
--	---	---	---	---	---	---	---	---	---	---	---	------	------	---	---	---	---	------	---	---	---	---	---	---	---	---	---	---

#### CORRECTION (c) :

Mean of X - mean of adjacent bands >3

	0	0	0	0	0	0	0	0	0	0	0	2.7	2.0	0	0	0	0	2.3	0	0	0	0	0	0	0	0	0	0
--	---	---	---	---	---	---	---	---	---	---	---	-----	-----	---	---	---	---	-----	---	---	---	---	---	---	---	---	---	---

Ftone=	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
--------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

#### TONAL CORRECTION :

Pair of 1/3 octave bands starting with, Hz

	31.5	40	50	63	80	100	125	160	200	250	315	400	500	630	800	1k	1.25k	1.6k	2k	2.5k	3.15k	4k	5k	6.3k	8k	10k		
dB(A)	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	
TONAL CORR.=	<u><b>0</b></u> dB(A)																											



## Appendix 4.9.1 Detailed Calculations of Fixed Plant Noise

### TONAL CORRECTION FOR MEASURED 1/3 OCTAVE NOISE LEVELS: EPS5

#### MEASURED NOISE LEVELS :

Freq, Hz	25	31.5	40	50	63	80	100	125	160	200	250	315	400	500	630	800	1k	1.25k	1.6k	2k	2.5k	3.15k	4k	5k	6.3k	8k	10k	12.5k	16k
A-WT Lp, dB	22.6	29.9	31.0	39.1	37.0	38.9	39.9	42.2	44.7	45.3	46.7	47.7	55.6	53.4	51.3	54.8	56.7	56.2	60.7	55.4	51.8	48.7	47.2	44.5	41.0	37.8	33.3	27.6	20.0
A-Wt Sound Pr. Level =																	<u>66.0 dB(A)</u>												

#### CORRECTION FOR TONALITY

##### CORRECTION (a) :

MAX = 60.7

Max - X < 15

Freq, Hz	25	31.5	40	50	63	80	100	125	160	200	250	315	400	500	630	800	1k	1.25k	1.6k	2k	2.5k	3.15k	4k	5k	6.3k	8k	10k	12.5k	16k
A-WT Lp, dB	22.6	29.9	31.0	39.1	37.0	38.9	39.9	42.2	44.7	45.3	46.7	47.7	55.6	53.4	51.3	54.8	56.7	56.2	60.7	55.4	51.8	48.7	47.2	44.5	41.0	37.8	33.3	27.6	20.0
	0	0	0	0	0	0	0	0	0	0	46.7	47.7	55.6	53.4	51.3	54.8	56.7	56.2	60.7	55.4	51.8	48.7	47.2	0	0	0	0	0	0

##### CORRECTION (b) :

X - adjacent bands >1

	0	0	0	0	0	0	0	0	0	0	0	0	55.6	0	0	0	0	0	60.7	0	0	0	0	0	0	0	0	0	0
--	---	---	---	---	---	---	---	---	---	---	---	---	------	---	---	---	---	---	------	---	---	---	---	---	---	---	---	---	---

##### CORRECTION (c) :

X - mean of adjacent bands >3

	0	0	0	0	0	0	0	0	0	0	0	0	5.0	0	0	0	0	0	5.0	0	0	0	0	0	0	0	0	0	0
Ftone=	0	0	0	0	0	0	0	0	0	0	0	0	5.0	0	0	0	0	0	5.0	0	0	0	0	0	0	0	0	0	0

#### TONAL CORRECTION :

dB(A)	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0
TONAL CORR.=																	<u>3 dB(A)</u>												

## Appendix 4.9.1 Detailed Calculations of Fixed Plant Noise

### TONAL CORRECTION FOR MEASURED 1/3 OCTAVE NOISE LEVELS - PAIR OF BANDS: EPS5

#### MEASURED NOISE LEVELS :

Freq, Hz	25	31.5	40	50	63	80	100	125	160	200	250	315	400	500	630	800	1k	1.25k	1.6k	2k	2.5k	3.15k	4k	5k	6.3k	8k	10k	12.5k	16k
A-WT Lp, dB	22.6	29.9	31.0	39.1	37.0	38.9	39.9	42.2	44.7	45.3	46.7	47.7	55.6	53.4	51.3	54.8	56.7	56.2	60.7	55.4	51.8	48.7	47.2	44.5	41.0	37.8	33.3	27.6	20.0
A-Wt Sound Pr. Level =	<u>66.0 dB(A)</u>																												

#### CORRECTION FOR TONALITY

CORRECTION (a) :	MAX = 60.7																												
Max - Max of Xs < 15																													
Freq, Hz	25	31.5	40	50	63	80	100	125	160	200	250	315	400	500	630	800	1k	1.25k	1.6k	2k	2.5k	3.15k	4k	5k	6.3k	8k	10k	12.5k	16k
A Wt Lp, dB	22.6	29.9	31.0	39.1	37.0	38.9	39.9	42.2	44.7	45.3	46.7	47.7	55.6	53.4	51.3	54.8	56.7	56.2	60.7	55.4	51.8	48.7	47.2	44.5	41.0	37.8	33.3	27.6	20.0
Ave. Lp of pair	0	30.4	35.0	38.0	37.9	39.4	41.0	43.4	45.0	46.0	47.2	51.6	54.5	52.3	53.1	55.8	56.4	58.4	58.0	53.6	50.2	47.9	45.9	42.8	39.4	35.5	30.4	23.8	0
	0	0	0	0	0	0	0	0	0	46.0	47.2	51.6	54.5	52.3	53.1	55.8	56.4	58.4	58.0	53.6	50.2	47.9	45.9	0	0	0	0	0	0

#### CORRECTION (b) :

Mean of X - adjacent bands >1																													
	0	0	0	0	0	0	0	0	0	0	0	0	54.5	0	0	0	0	58.4	58.0	0	0	0	0	0	0	0	0	0	0

#### CORRECTION (c) :

Mean of X - mean of adjacent bands >3																													
	0	0	0	0	0	0	0	0	0	0	0	0	4.9	0	0	0	0	2.4	4.1	0	0	0	0	0	0	0	0	0	0
Ftone=	0	0	0	0	0	0	0	0	0	0	0	0	4.9	0	0	0	0	0	4.1	0	0	0	0	0	0	0	0	0	0

#### TONAL CORRECTION :

#### Pair of 1/3 octave bands starting with, Hz

	31.5	40	50	63	80	100	125	160	200	250	315	400	500	630	800	1k	1.25k	1.6k	2k	2.5k	3.15k	4k	5k	6.3k	8k	10k					
dB(A)	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>			
TONAL CORR.=						<u><b>3</b></u>		dB(A)																							

## Appendix 4.9.1 Detailed Calculations of Fixed Plant Noise

### TONAL CORRECTION FOR MEASURED 1/3 OCTAVE NOISE LEVELS: EPS1

#### Evening Time

##### MEASURED NOISE LEVELS :

Freq, Hz	25	31.5	40	50	63	80	100	125	160	200	250	315	400	500	630	800	1k	1.25k	1.6k	2k	2.5k	3.15k	4k	5k	6.3k	8k	10k	12.5k	16k
A-WT Lp, dB	21.8	29.5	31.4	38.2	39.3	41.0	47.2	45.4	48.2	46.5	46.2	47.8	48.5	49.4	49.7	50.3	50.5	50.5	50.0	48.5	47.5	45.7	43.9	42.0	40.8	40.2	39.5	37.4	31.8
A-Wt Sound Pr. Level =	<u>61.0 dB(A)</u>																												

##### CORRECTION FOR TONALITY

##### CORRECTION (a) :

MAX = 50.5

Max - X < 15

Freq, Hz	25	31.5	40	50	63	80	100	125	160	200	250	315	400	500	630	800	1k	1.25k	1.6k	2k	2.5k	3.15k	4k	5k	6.3k	8k	10k	12.5k	16k	
A-WT Lp, dB	21.8	29.5	31.4	38.2	39.3	41.0	47.2	45.4	48.2	46.5	46.2	47.8	48.5	49.4	49.7	50.3	50.5	50.5	50.0	48.5	47.5	45.7	43.9	42.0	40.8	40.2	39.5	37.4	31.8	
	0	0	0	0	0	0	47.2	0	48.2	46.5	46.2	47.8	48.5	49.4	49.7	50.3	50.5	50.5	50.0	48.5	47.5	0	0	0	0	0	0	0	0	0

##### CORRECTION (b) :

X - adjacent bands >1

	0	0	0	0	0	0	47.2	0	48.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
--	---	---	---	---	---	---	------	---	------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

##### CORRECTION (c) :

X - mean of adjacent bands >3

	0	0	0	0	0	0	3.9	0	2.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ftone=	0	0	0	0	0	0	3.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

##### TONAL CORRECTION :

dB(A)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TONAL CORR.=	<u>0 dB(A)</u>																												

## Appendix 4.9.1 Detailed Calculations of Fixed Plant Noise

### TONAL CORRECTION FOR MEASURED 1/3 OCTAVE NOISE LEVELS - PAIR OF BANDS: EPS1

#### Evening Time

##### MEASURED NOISE LEVELS :

Freq, Hz	25	31.5	40	50	63	80	100	125	160	200	250	315	400	500	630	800	1k	1.25k	1.6k	2k	2.5k	3.15k	4k	5k	6.3k	8k	10k	12.5k	16k
A-WT Lp, dB	21.8	29.5	31.4	38.2	39.3	41.0	47.2	45.4	48.2	46.5	46.2	47.8	48.5	49.4	49.7	50.3	50.5	50.5	50.0	48.5	47.5	45.7	43.9	42.0	40.8	40.2	39.5	37.4	31.8
A-Wt Sound Pr. Level =	<u>61.0 dB(A)</u>																												

##### CORRECTION FOR TONALITY

CORRECTION (a) : MAX = 50.5

Max - Max of Xs < 15

Freq, Hz	25	31.5	40	50	63	80	100	125	160	200	250	315	400	500	630	800	1k	1.25k	1.6k	2k	2.5k	3.15k	4k	5k	6.3k	8k	10k	12.5k	16k
A Wt Lp, dB	21.8	29.5	31.4	38.2	39.3	41.0	47.2	45.4	48.2	46.5	46.2	47.8	48.5	49.4	49.7	50.3	50.5	50.5	50.0	48.5	47.5	45.7	43.9	42.0	40.8	40.2	39.5	37.4	31.8
Ave. Lp of pair	0	30.4	34.8	38.8	40.2	44.1	46.3	46.8	47.4	46.3	47.0	48.1	48.9	49.5	50.0	50.4	50.5	50.3	49.3	48.0	46.6	44.8	42.9	41.4	40.5	39.9	38.5	34.6	0
	0	0	0	0	0	44.1	46.3	46.8	47.4	46.3	47.0	48.1	48.9	49.5	50.0	50.4	50.5	50.3	49.3	48.0	46.6	0	0	0	0	0	0	0	0

##### CORRECTION (b) :

Mean of X - adjacent bands >1

	0	0	0	0	0	0	0	0	47.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
--	---	---	---	---	---	---	---	---	------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

##### CORRECTION (c) :

Mean of X - mean of adjacent bands >3

	0	0	0	0	0	0	0	0	1.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
--	---	---	---	---	---	---	---	---	-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Ftone= 

0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

##### TONAL CORRECTION :

Pair of 1/3 octave bands starting with, Hz

	31.5	40	50	63	80	100	125	160	200	250	315	400	500	630	800	1k	1.25k	1.6k	2k	2.5k	3.15k	4k	5k	6.3k	8k	10k		
dB(A)	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
TONAL CORR.=	<u><u>0 dB(A)</u></u>																											

## Appendix 4.9.1 Detailed Calculations of Fixed Plant Noise

### TONAL CORRECTION FOR MEASURED 1/3 OCTAVE NOISE LEVELS: EPS1

#### Night Time

##### MEASURED NOISE LEVELS :

Freq, Hz	25	31.5	40	50	63	80	100	125	160	200	250	315	400	500	630	800	1k	1.25k	1.6k	2k	2.5k	3.15k	4k	5k	6.3k	8k	10k	12.5k	16k
A-WT Lp, dB	28.3	33.9	32.3	40.6	41.5	42.2	46.8	48.0	48.5	49.8	51.3	52.9	53.9	54.3	54.5	55.3	55.6	56.0	55.3	54.9	54.1	53.8	54.4	54.4	53.2	51.5	48.4	44.7	38.7
A-Wt Sound Pr. Level =	<u>66.7 dB(A)</u>																												

##### CORRECTION FOR TONALITY

##### CORRECTION (a) :

MAX = 56.0

Max - X < 15

Freq, Hz	25	31.5	40	50	63	80	100	125	160	200	250	315	400	500	630	800	1k	1.25k	1.6k	2k	2.5k	3.15k	4k	5k	6.3k	8k	10k	12.5k	16k
A-WT Lp, dB	28.3	33.9	32.3	40.6	41.5	42.2	46.8	48.0	48.5	49.8	51.3	52.9	53.9	54.3	54.5	55.3	55.6	56.0	55.3	54.9	54.1	53.8	54.4	54.4	53.2	51.5	48.4	44.7	38.7
	0	0	0	0	0	0	46.8	48.0	48.5	49.8	51.3	52.9	53.9	54.3	54.5	55.3	55.6	56.0	55.3	54.9	54.1	53.8	54.4	54.4	53.2	51.5	48.4	0	0

##### CORRECTION (b) :

X - adjacent bands >1

0 0

##### CORRECTION (c) :

X - mean of adjacent bands >3

0 0

Ftone= 0

##### TONAL CORRECTION :

dB(A) 0

TONAL CORR.= 0 dB(A)

## Appendix 4.9.1 Detailed Calculations of Fixed Plant Noise

### TONAL CORRECTION FOR MEASURED 1/3 OCTAVE NOISE LEVELS - PAIR OF BANDS: EPS1

#### Night Time

#### MEASURED NOISE LEVELS :

Freq, Hz	25	31.5	40	50	63	80	100	125	160	200	250	315	400	500	630	800	1k	1.25k	1.6k	2k	2.5k	3.15k	4k	5k	6.3k	8k	10k	12.5k	16k
A-WT Lp, dB	28.3	33.9	32.3	40.6	41.5	42.2	46.8	48.0	48.5	49.8	51.3	52.9	53.9	54.3	54.5	55.3	55.6	56.0	55.3	54.9	54.1	53.8	54.4	54.4	53.2	51.5	48.4	44.7	38.7
A-Wt Sound Pr. Level =	<u>66.7 dB(A)</u>																												

#### CORRECTION FOR TONALITY

CORRECTION (a) : MAX = 56.0

Max - Max of Xs < 15

Freq, Hz	25	31.5	40	50	63	80	100	125	160	200	250	315	400	500	630	800	1k	1.25k	1.6k	2k	2.5k	3.15k	4k	5k	6.3k	8k	10k	12.5k	16k
A Wt Lp, dB	28.3	33.9	32.3	40.6	41.5	42.2	46.8	48.0	48.5	49.8	51.3	52.9	53.9	54.3	54.5	55.3	55.6	56.0	55.3	54.9	54.1	53.8	54.4	54.4	53.2	51.5	48.4	44.7	38.7
Ave. Lp of pair	0	33.1	36.5	41.0	41.8	44.5	47.4	48.3	49.1	50.6	52.1	53.4	54.1	54.4	54.9	55.5	55.8	55.6	55.1	54.5	54.0	54.1	54.4	53.8	52.3	50.0	46.6	41.7	0
	0	0	0	0	0	44.5	47.4	48.3	49.1	50.6	52.1	53.4	54.1	54.4	54.9	55.5	55.8	55.6	55.1	54.5	54.0	54.1	54.4	53.8	52.3	50.0	46.6	0	0

#### CORRECTION (b) :

Mean of X - adjacent bands >1

	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
--	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

#### CORRECTION (c) :

Mean of X - mean of adjacent bands >3

	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
--	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Ftone=	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
--------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

#### TONAL CORRECTION :

Pair of 1/3 octave bands starting with, Hz

	31.5	40	50	63	80	100	125	160	200	250	315	400	500	630	800	1k	1.25k	1.6k	2k	2.5k	3.15k	4k	5k	6.3k	8k	10k		
dB(A)	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
TONAL CORR.=	<u><u>0 dB(A)</u></u>																											

## Appendix 4.9.1 Detailed Calculations of Fixed Plant Noise

### TONAL CORRECTION FOR MEASURED 1/3 OCTAVE NOISE LEVELS: EPS6

#### MEASURED NOISE LEVELS :

Freq, Hz	25	31.5	40	50	63	80	100	125	160	200	250	315	400	500	630	800	1k	1.25k	1.6k	2k	2.5k	3.15k	4k	5k	6.3k	8k	10k	12.5k	16k
A-WT Lp, dB	25.5	28.3	31.5	37.6	40.2	45.9	46.2	61.4	66.4	59.2	55.4	60.5	65.2	63.9	66.0	69.0	71.3	71.1	67.5	66.0	66.7	65.7	68.0	66.9	59.6	50.0	43.4	38.8	33.2
A-Wt Sound Pr. Level =																	<u>79.2 dB(A)</u>												

#### CORRECTION FOR TONALITY

CORRECTION (a) : MAX = 71.3

Max - X < 15

Freq, Hz	25	31.5	40	50	63	80	100	125	160	200	250	315	400	500	630	800	1k	1.25k	1.6k	2k	2.5k	3.15k	4k	5k	6.3k	8k	10k	12.5k	16k
A-WT Lp, dB	25.5	28.3	31.5	37.6	40.2	45.9	46.2	61.4	66.4	59.2	55.4	60.5	65.2	63.9	66.0	69.0	71.3	71.1	67.5	66.0	66.7	65.7	68.0	66.9	59.6	50.0	43.4	38.8	33.2
	0	0	0	0	0	0	0	61.4	66.4	59.2	0	60.5	65.2	63.9	66.0	69.0	71.3	71.1	67.5	66.0	66.7	65.7	68.0	66.9	59.6	0	0	0	0

#### CORRECTION (b) :

X - adjacent bands >1

	0	0	0	0	0	0	0	0	66.4	0	0	0	65.2	0	0	0	0	0	0	0	0	0	68.0	0	0	0	0	0
--	---	---	---	---	---	---	---	---	------	---	---	---	------	---	---	---	---	---	---	---	---	---	------	---	---	---	---	---

#### CORRECTION (c) :

X - mean of adjacent bands >3

	0	0	0	0	0	0	0	0	6.2	0	0	0	3.1	0	0	0	0	0	0	0	0	0	1.7	0	0	0	0	0
Ftone=	0	0	0	0	0	0	0	0	6.2	0	0	0	3.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

#### TONAL CORRECTION :

dB(A)	0	0	0	0	0	0	0	0	3	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TONAL CORR.=																	<u>3 dB(A)</u>											

## Appendix 4.9.1 Detailed Calculations of Fixed Plant Noise

### TONAL CORRECTION FOR MEASURED 1/3 OCTAVE NOISE LEVELS - PAIR OF BANDS: EPS6

#### MEASURED NOISE LEVELS :

Freq, Hz	25	31.5	40	50	63	80	100	125	160	200	250	315	400	500	630	800	1k	1.25k	1.6k	2k	2.5k	3.15k	4k	5k	6.3k	8k	10k	12.5k	16k
A-WT Lp, dB	25.5	28.3	31.5	37.6	40.2	45.9	46.2	61.4	66.4	59.2	55.4	60.5	65.2	63.9	66.0	69.0	71.3	71.1	67.5	66.0	66.7	65.7	68.0	66.9	59.6	50.0	43.4	38.8	33.2
A-Wt Sound Pr. Level =																	<u>79.2 dB(A)</u>												

#### CORRECTION FOR TONALITY

CORRECTION (a) :																	MAX =	71.3														
Max - Max of Xs < 15																																
Freq, Hz	25	31.5	40	50	63	80	100	125	160	200	250	315	400	500	630	800	1k	1.25k	1.6k	2k	2.5k	3.15k	4k	5k	6.3k	8k	10k	12.5k	16k			
A Wt Lp, dB	25.5	28.3	31.5	37.6	40.2	45.9	46.2	61.4	66.4	59.2	55.4	60.5	65.2	63.9	66.0	69.0	71.3	71.1	67.5	66.0	66.7	65.7	68.0	66.9	59.6	50.0	43.4	38.8	33.2			
Ave. Lp of pair	0	29.9	34.6	38.9	43.1	46.1	53.8	63.9	62.8	57.3	57.9	62.9	64.6	64.9	67.5	70.2	71.2	69.3	66.7	66.4	66.2	66.8	67.4	63.3	54.8	46.7	41.1	36.0	0			
	0	0	0	0	0	0	53.8	63.9	62.8	57.3	57.9	62.9	64.6	64.9	67.5	70.2	71.2	69.3	66.7	66.4	66.2	66.8	67.4	63.3	54.8	0	0	0	0			

#### CORRECTION (b) :

Mean of X - adjacent bands >1																																
	0	0	0	0	0	0	0	63.9	62.8	0	0	0	0	0	0	0	71.2	0	0	0	0	0	67.4	0	0	0	0					

#### CORRECTION (c) :

Mean of X - mean of adjacent bands >3																																
	0	0	0	0	0	0	0	11.2	4.4	0	0	0	0	0	0	0	2.9	0	0	0	0	0	4.8	0	0	0	0					
Ftone=	0	0	0	0	0	0	0	11.2	4.4	0	0	0	0	0	0	0	0	0	0	0	0	0	4.8	0	0	0	0					

#### TONAL CORRECTION :

#### Pair of 1/3 octave bands starting with, Hz

	31.5	40	50	63	80	100	125	160	200	250	315	400	500	630	800	1k	1.25k	1.6k	2k	2.5k	3.15k	4k	5k	6.3k	8k	10k	
dB(A)	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0
TONAL CORR.=																	<u>6 dB(A)</u>										



## Appendix 4.9.1 Detailed Calculations of Fixed Plant Noise

### TONAL CORRECTION FOR MEASURED 1/3 OCTAVE NOISE LEVELS: EPS1

#### Evening Time

##### MEASURED NOISE LEVELS :

Freq, Hz	25	31.5	40	50	63	80	100	125	160	200	250	315	400	500	630	800	1k	1.25k	1.6k	2k	2.5k	3.15k	4k	5k	6.3k	8k	10k	12.5k	16k
A-WT Lp, dB	24.0	27.2	30.2	36.8	39.5	45.6	46.0	61.2	66.4	58.7	54.9	60.3	65.5	63.9	65.9	68.9	71.0	70.1	66.7	65.5	65.6	62.3	65.3	66.1	63.1	54.3	42.1	38.0	32.6
A-Wt Sound Pr. Level =																	<u>78.5 dB(A)</u>												

##### CORRECTION FOR TONALITY

CORRECTION (a) : MAX = 71.0

Max - X < 15

Freq, Hz	25	31.5	40	50	63	80	100	125	160	200	250	315	400	500	630	800	1k	1.25k	1.6k	2k	2.5k	3.15k	4k	5k	6.3k	8k	10k	12.5k	16k
A-WT Lp, dB	24.0	27.2	30.2	36.8	39.5	45.6	46.0	61.2	66.4	58.7	54.9	60.3	65.5	63.9	65.9	68.9	71.0	70.1	66.7	65.5	65.6	62.3	65.3	66.1	63.1	54.3	42.1	38.0	32.6
	0	0	0	0	0	0	0	61.2	66.4	58.7	0	60.3	65.5	63.9	65.9	68.9	71.0	70.1	66.7	65.5	65.6	62.3	65.3	66.1	63.1	0	0	0	0

##### CORRECTION (b) :

X - adjacent bands >1

	0	0	0	0	0	0	0	0	66.4	0	0	0	65.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
--	---	---	---	---	---	---	---	---	------	---	---	---	------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

##### CORRECTION (c) :

X - mean of adjacent bands >3

	0	0	0	0	0	0	0	0	6.4	0	0	0	3.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ftone=	0	0	0	0	0	0	0	0	6.4	0	0	0	3.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

##### TONAL CORRECTION :

dB(A)	0	0	0	0	0	0	0	0	3	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TONAL CORR.=																	<u>3 dB(A)</u>												

## Appendix 4.9.1 Detailed Calculations of Fixed Plant Noise

### TONAL CORRECTION FOR MEASURED 1/3 OCTAVE NOISE LEVELS - PAIR OF BANDS: EPS1

#### Evening Time

##### MEASURED NOISE LEVELS :

Freq, Hz	25	31.5	40	50	63	80	100	125	160	200	250	315	400	500	630	800	1k	1.25k	1.6k	2k	2.5k	3.15k	4k	5k	6.3k	8k	10k	12.5k	16k
A-WT Lp, dB	24.0	27.2	30.2	36.8	39.5	45.6	46.0	61.2	66.4	58.7	54.9	60.3	65.5	63.9	65.9	68.9	71.0	70.1	66.7	65.5	65.6	62.3	65.3	66.1	63.1	54.3	42.1	38.0	32.6
A-Wt Sound Pr. Level =																	<u>78.5 dB(A)</u>												

##### CORRECTION FOR TONALITY

CORRECTION (a) :		MAX =		71.0																									
Max - Max of Xs < 15																													
Freq, Hz	25	31.5	40	50	63	80	100	125	160	200	250	315	400	500	630	800	1k	1.25k	1.6k	2k	2.5k	3.15k	4k	5k	6.3k	8k	10k	12.5k	16k
A Wt Lp, dB	24.0	27.2	30.2	36.8	39.5	45.6	46.0	61.2	66.4	58.7	54.9	60.3	65.5	63.9	65.9	68.9	71.0	70.1	66.7	65.5	65.6	62.3	65.3	66.1	63.1	54.3	42.1	38.0	32.6
Ave. Lp of pair	0	28.7	33.5	38.2	42.6	45.8	53.6	63.8	62.6	56.8	57.6	62.9	64.7	64.9	67.4	69.9	70.6	68.4	66.1	65.5	63.9	63.8	65.7	64.6	58.7	48.2	40.0	35.3	0
	0	0	0	0	0	0	53.6	63.8	62.6	56.8	57.6	62.9	64.7	64.9	67.4	69.9	70.6	68.4	66.1	65.5	63.9	63.8	65.7	64.6	58.7	0	0	0	0

##### CORRECTION (b) :

Mean of X - adjacent bands >1																													
	0	0	0	0	0	0	0	63.8	62.6	0	0	0	0	0	0	0	70.6	0	0	0	0	0	65.7	0	0	0	0	0	0

##### CORRECTION (c) :

Mean of X - mean of adjacent bands >3																													
	0	0	0	0	0	0	0	11.5	4.5	0	0	0	0	0	0	0	2.8	0	0	0	0	0	3.0	0	0	0	0	0	0
Ftone=	0	0	0	0	0	0	0	11.5	4.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

##### TONAL CORRECTION :

##### Pair of 1/3 octave bands starting with, Hz

	31.5	40	50	63	80	100	125	160	200	250	315	400	500	630	800	1k	1.25k	1.6k	2k	2.5k	3.15k	4k	5k	6.3k	8k	10k	
dB(A)	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TONAL CORR.=																	<u>6 dB(A)</u>										

## Appendix 4.9.1 Detailed Calculations of Fixed Plant Noise

### TONAL CORRECTION FOR MEASURED 1/3 OCTAVE NOISE LEVELS: EPS1

#### Night Time

##### MEASURED NOISE LEVELS :

Freq, Hz	25	31.5	40	50	63	80	100	125	160	200	250	315	400	500	630	800	1k	1.25k	1.6k	2k	2.5k	3.15k	4k	5k	6.3k	8k	10k	12.5k	16k
A-WT Lp, dB	20.3	19.9	30.9	33.1	38.0	45.4	45.8	60.9	66.4	58.5	54.4	60.0	65.5	63.8	65.9	68.8	70.9	70.1	67.1	65.6	65.5	62.2	65.6	62.5	55.3	47.9	41.4	38.0	32.6
A-Wt Sound Pr. Level =																	<u>78.3 dB(A)</u>												

##### CORRECTION FOR TONALITY

CORRECTION (a) : MAX = 70.9

Max - X < 15

Freq, Hz	25	31.5	40	50	63	80	100	125	160	200	250	315	400	500	630	800	1k	1.25k	1.6k	2k	2.5k	3.15k	4k	5k	6.3k	8k	10k	12.5k	16k
A-WT Lp, dB	20.3	19.9	30.9	33.1	38.0	45.4	45.8	60.9	66.4	58.5	54.4	60.0	65.5	63.8	65.9	68.8	70.9	70.1	67.1	65.6	65.5	62.2	65.6	62.5	55.3	47.9	41.4	38.0	32.6
	0	0	0	0	0	0	0	60.9	66.4	58.5	0	60.0	65.5	63.8	65.9	68.8	70.9	70.1	67.1	65.6	65.5	62.2	65.6	62.5	0	0	0	0	0

##### CORRECTION (b) :

X - adjacent bands >1

	0	0	0	0	0	0	0	0	66.4	0	0	0	65.5	0	0	0	0	0	0	0	0	0	65.6	0	0	0	0	0
--	---	---	---	---	---	---	---	---	------	---	---	---	------	---	---	---	---	---	---	---	---	---	------	---	---	---	---	---

##### CORRECTION (c) :

X - mean of adjacent bands >3

	0	0	0	0	0	0	0	0	6.6	0	0	0	3.6	0	0	0	0	0	0	0	0	0	3.3	0	0	0	0	0
Ftone=	0	0	0	0	0	0	0	0	6.6	0	0	0	3.6	0	0	0	0	0	0	0	0	0	3.3	0	0	0	0	0

##### TONAL CORRECTION :

dB(A)	0	0	0	0	0	0	0	0	3	0	0	0	3	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0
TONAL CORR.=																	<u>3 dB(A)</u>											

## Appendix 4.9.1 Detailed Calculations of Fixed Plant Noise

### TONAL CORRECTION FOR MEASURED 1/3 OCTAVE NOISE LEVELS - PAIR OF BANDS: EPS1

#### Night Time

##### MEASURED NOISE LEVELS :

Freq, Hz	25	31.5	40	50	63	80	100	125	160	200	250	315	400	500	630	800	1k	1.25k	1.6k	2k	2.5k	3.15k	4k	5k	6.3k	8k	10k	12.5k	16k
A-WT Lp, dB	20.3	19.9	30.9	33.1	38.0	45.4	45.8	60.9	66.4	58.5	54.4	60.0	65.5	63.8	65.9	68.8	70.9	70.1	67.1	65.6	65.5	62.2	65.6	62.5	55.3	47.9	41.4	38.0	32.6
A-Wt Sound Pr. Level =																	<u>78.3 dB(A)</u>												

##### CORRECTION FOR TONALITY

CORRECTION (a) :		MAX =																70.9											
Max - Max of Xs < 15																													
Freq, Hz	25	31.5	40	50	63	80	100	125	160	200	250	315	400	500	630	800	1k	1.25k	1.6k	2k	2.5k	3.15k	4k	5k	6.3k	8k	10k	12.5k	16k
A Wt Lp, dB	20.3	19.9	30.9	33.1	38.0	45.4	45.8	60.9	66.4	58.5	54.4	60.0	65.5	63.8	65.9	68.8	70.9	70.1	67.1	65.6	65.5	62.2	65.6	62.5	55.3	47.9	41.4	38.0	32.6
Ave. Lp of pair	0	25.4	32.0	35.5	41.7	45.6	53.4	63.7	62.4	56.4	57.2	62.8	64.7	64.8	67.3	69.9	70.5	68.6	66.3	65.5	63.9	63.9	64.1	58.9	51.6	44.7	39.7	35.3	0
	0	0	0	0	0	0	53.4	63.7	62.4	56.4	57.2	62.8	64.7	64.8	67.3	69.9	70.5	68.6	66.3	65.5	63.9	63.9	64.1	58.9	0	0	0	0	0

##### CORRECTION (b) :

Mean of X - adjacent bands >1																												
	0	0	0	0	0	0	0	63.7	62.4	0	0	0	0	0	0	0	70.5	0	0	0	0	0	64.1	0	0	0	0	0

##### CORRECTION (c) :

Mean of X - mean of adjacent bands >3																												
	0	0	0	0	0	0	0	11.5	4.8	0	0	0	0	0	0	0	2.6	0	0	0	0	0	5.3	0	0	0	0	0
Ftone=	0	0	0	0	0	0	0	11.5	4.8	0	0	0	0	0	0	0	0	0	0	0	0	0	5.3	0	0	0	0	0

##### TONAL CORRECTION :

##### Pair of 1/3 octave bands starting with, Hz

	31.5	40	50	63	80	100	125	160	200	250	315	400	500	630	800	1k	1.25k	1.6k	2k	2.5k	3.15k	4k	5k	6.3k	8k	10k	
dB(A)	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0
TONAL CORR.=																	<u>6 dB(A)</u>										

## Appendix 4.9.1 Detailed Calculations of Fixed Plant Noise

### Calculation of Corrected SWL of Existing Pumping Stations

Fixed Plant Noise Source	Description	Measurement Distance from Source, m	Measurement Date	Measurement Period	Max. Measured SPL, dB(A)	Correction, dB(A)					Corrected SWL, dB(A)
						Tonal	Impulsiveness	Intermittency	Façade [1]	Distance [2]	
EPS1	Sik Kong Tsuen Stormwater Pumping Station	1	17 March 2016	Day	65	0	0	0	3	8	76
		1	17 March 2016	Evening	64	0	0	0	3	8	75
		1	18 March 2016	Night	64	0	0	0	3	8	75
EPS2	Sik Kong Wai Stormwater Pumping Station	1	18 March 2016	Day	66	0	0	0	3	8	77
		1	18 March 2016	Evening	63	0	0	0	3	8	74
		1	19 March 2016	Night	60	3	0	0	3	8	74
EPS3	Lo Uk Tsuen Stormwater Pumping Station	1	19 March 2016	Day	57	0	0	0	3	8	68
		1	19 March 2016	Evening	56	0	0	0	3	8	67
		1	19 March 2016	Night	56	3	0	0	3	8	70
EPS4	Kiu Tau Wai Stormwater Pumping Station	1	1 April 2016	Day	62	0	0	0	3	8	73
		1	1 April 2016	Evening	57	6	0	0	3	8	74
		1	2 April 2016	Night	62	3	0	0	3	8	76
EPS5	Sheung Cheung Wai Floodwater Pumping Station	1	5 April 2016	Day	66	3	0	0	3	8	80
		1	5 April 2016	Evening	61	0	0	0	3	8	72
		1	6 April 2016	Night	67	0	0	0	3	8	78
EPS6 (at Site 1-23)	Existing Ha Tsuen Sewage Pumping Station	1	17 May 2016	Day	79	3	0	0	3	8	93
		1	17 May 2016	Evening	79	6	0	0	3	8	96
		1	18 May 2016	Night	78	6	0	0	3	8	95

Remarks:

- [1] Façade correction of +3dB(A) has been added for the free-field measurements.  
 [2] Distance Correction =  $20 \cdot \log_{10}(D) + 8$  dB(A), where D is the distance from source

Appendix 4.9.1 Detailed Calculations of Fixed Plant Noise

Determination of Fixed Plant Noise Criteria

NSR		Type of Area [1]	Affected by IF [1]	Influence Factor	ASR [1]	ANL, dB(A)			ANL-5, dB(A)			Prevailing Noise Level, dB(A)			Criteria, dB(A)		
ID	Description					Day	Evening	Night	Day	Evening	Night	Day	Evening	Night	Day	Evening	Night
E1-IA_R01	Tseung Kong Wai	i	Directly Affected	Site 3-18	B	65	65	55	60	60	50	55	55	46	55	55	46
E1-IA_R02	Tseung Kong Wai	i	Not Affected	-	A	60	60	50	55	55	45	55	55	46	55	55	45
E1-IJ_R05	San Sang Tsuen	i	Not Affected	-	A	60	60	50	55	55	45	53	50	40	53	50	40
E1-IK_R04	Shek Po Tsuen	i	Not Affected	-	A	60	60	50	55	55	45	-	-	-	55	55	45
E1-IK_R05	Shek Po Tsuen	i	Not Affected	-	A	60	60	50	55	55	45	-	-	-	55	55	45
E1-IK_R06	Shek Po Tsuen	i	Not Affected	-	A	60	60	50	55	55	45	-	-	-	55	55	45
E2-IA_R03	Fung Kong Tsuen	i	Directly Affected	Site 3-1	B	65	65	55	60	60	50	51	46	39	51	46	39
E1-OB_E11	YLPMSAA Tang Siu Tony	iii	Not Affected	-	B	65	65	55	60	60	50	-	-	-	60	60	50
E1-OB_R02	Tin Shing Court	iii	Not Affected	-	B	65	65	55	60	60	50	-	-	-	60	60	50
E1-OB_R03	Tin Shing Court	iii	Not Affected	-	B	65	65	55	60	60	50	-	-	-	60	60	50
O5-06_R13	Site 5-6	iii	Not Affected	-	B	65	65	55	60	60	50	-	-	-	60	60	50
O5-06_R25	Site 5-6	iii	Not Affected	-	B	65	65	55	60	60	50	-	-	-	60	60	50
P1-12_R01	Site 1-12	iii	Not Affected	-	B	65	65	55	60	60	50	-	-	-	60	60	50
P1-19_R11	Site 1-19	iii	Not Affected	-	B	65	65	55	60	60	50	-	-	-	60	60	50
P1-21_R22	Site 1-21	iii	Not Affected	-	B	65	65	55	60	60	50	-	-	-	60	60	50
P2-11_R21	Site 2-11	iii	Not Affected	-	B	65	65	55	60	60	50	-	-	-	60	60	50
P2-24_E03	Site 2-24	iii	Not Affected	-	B	65	65	55	60	60	50	-	-	-	60	60	50
P2-26_E11	Site 2-26	iii	Not Affected	-	B	65	65	55	60	60	50	-	-	-	60	60	50
P2-28_E02	Site 2-28	iii	Directly Affected	Sites 3-1 and 3-4	C	70	70	60	65	65	55	-	-	-	65	65	55
P2-30_R02	Site 2-30	iii	Not Affected	-	B	65	65	55	60	60	50	-	-	-	60	60	50
P4-01_R02	Site 4-1	iii	Directly Affected	Kong Shum Western Highway, Sites 3-43 and 3-45	C	70	70	60	65	65	55	-	-	-	65	65	55
P4-03_R01	Site 4-3	iii	Directly Affected	Kong Shum Western Highway, Sites 3-46	C	70	70	60	65	65	55	-	-	-	65	65	55
P4-03_R02	Site 4-3	iii	Indirectly Affected	Kong Shum Western Highway, Sites 3-43 and 3-45	C	70	70	60	65	65	55	-	-	-	65	65	55
P4-04_R13	Site 4-4	iii	Directly Affected	Kong Shum Western Highway, Site 3-45 and 3-46	C	70	70	60	65	65	55	-	-	-	65	65	55
P4-05_R03	Site 4-5	iii	Directly Affected	Kong Shum Western Highway, Site 3-48 and 3-50	C	70	70	60	65	65	55	-	-	-	65	65	55
P4-05_R13	Site 4-5	iii	Directly Affected	Kong Shum Western Highway, Site 3-48 and 3-50	C	70	70	60	65	65	55	-	-	-	65	65	55
P4-06_R11	Site 4-6	iii	Not Affected	-	B	65	65	55	60	60	50	-	-	-	60	60	50
P4-06_R12	Site 4-6	iii	Not Affected	-	B	65	65	55	60	60	50	-	-	-	60	60	50
P4-10_R01	Site 4-10	iii	Not Affected	-	B	65	65	55	60	60	50	-	-	-	60	60	50
P4-10_R11	Site 4-10	iii	Not Affected	-	B	65	65	55	60	60	50	-	-	-	60	60	50
P4-20_R01	Site 4-20	iv	Not Affected	-	B	65	65	55	60	60	50	-	-	-	60	60	50
P4-20_R04	Site 4-20	iv	Not Affected	-	B	65	65	55	60	60	50	-	-	-	60	60	50
P4-20_R05	Site 4-20	iv	Not Affected	-	B	65	65	55	60	60	50	-	-	-	60	60	50
P4-22_R01	Site 4-22	iii	Directly Affected	Castle Peak Road	C	70	70	60	65	65	55	-	-	-	65	65	55
P4-25c_R01	Site 4-25c	iii	Not Affected	-	B	65	65	55	60	60	50	-	-	-	60	60	50
P4-25c_R11	Site 4-25c	iii	Not Affected	-	B	65	65	55	60	60	50	-	-	-	60	60	50
P4-28_R41	Site 4-28	iii	Not Affected	-	B	65	65	55	60	60	50	-	-	-	60	60	50
P4-29_R21	Site 4-29	iii	Not Affected	-	B	65	65	55	60	60	50	-	-	-	60	60	50
P5-08_R11	Site 5-8	iii	Not Affected	-	B	65	65	55	60	60	50	-	-	-	60	60	50
P5-08_R31	Site 5-8	iii	Not Affected	-	B	65	65	55	60	60	50	-	-	-	60	60	50
P5-09_R32	Site 5-9	iii	Not Affected	-	B	65	65	55	60	60	50	-	-	-	60	60	50
P5-14_E01	Site 5-14	iii	Indirectly Affected	Hung Tin Road	C	70	70	60	65	65	55	-	-	-	65	65	55
P5-16_R01	Site 5-16	iii	Not Affected	-	B	65	65	55	60	60	50	-	-	-	60	60	50
P5-21_E01	Site 5-21	iii	Not Affected	-	B	65	65	55	60	60	50	-	-	-	60	60	50
P5-34_E01	Site 5-34	iii	Not Affected	-	B	65	65	55	60	60	50	-	-	-	60	60	50

Remarks: Site emarks:

[1] ASR of the NSR is determined with reference to Table 1 of Technical Memorandum for the Assessment of Noise from Places Other Than Domestic Premises, Public Places or Construction Sites.

Appendix 4.9.1 Detailed Calculations of Fixed Plant Noise

Source	Uses	Corrected SWL / Max Allowed SWL, dB(A)			
		Day	Evening	Night	Overall Minimum
EPS1	Pumping Station	76	75	75	75
EPS2	Pumping Station	77	74	74	74
EPS3	Pumping Station	68	67	70	67
EPS4	Pumping Station	73	74	76	73
EPS5	Pumping Station	80	72	78	72
EPS6	Pumping Station	93	96	95	93
Site 1-24	DCS	102	102	92	92
Site 1-29	Sports Ground	93	93	83	83
Site 2-23	PTI	85	85	75	75
Site 2-29	EFTS Parking / Operational Facilities	Sources Blocked by Barriers/ Buildings			
Site 2-34	SPS	95	95	90	90
Site 3-1	Port Back-up	85	80	73	73
Site 3-3	Reservoir	No NSR within 300m study area			
Site 3-4	Port Back-up	106	101	94	94
Site 3-5	Port Back-up	Sources Blocked by Barriers/ Buildings			
Site 3-6	Port Back-up	Sources Blocked by Barriers/ Buildings			
Site 3-7	Port Back-up	Sources Blocked by Barriers/ Buildings			
Site 3-8	Port Back-up	Sources Blocked by Barriers/ Buildings			
Site 3-11	Port Back-up	Sources Blocked by Barriers/ Buildings			
Site 3-13	Port Back-up	Sources Blocked by Barriers/ Buildings			
Site 3-14	Port Back-up	Sources Blocked by Barriers/ Buildings			
Site 3-18	EFTS Depot	106	106	96	96
Site 3-19	ESS	Sources Blocked by Barriers/ Buildings			
Site 3-26	HSK STW	No NSR within 300m study area			
Site 3-41	SPS	95	95	85	85
Site 3-43	Industry	106	106	96	96
Site 3-44	Industry	106	106	96	96
Site 3-45	Industry	104	104	94	94
Site 3-46	Industry	104	104	94	94
Site 3-47	Industry	105	105	95	95
Site 3-48	SPS	103	103	93	93
Site 3-50	Industry	104	104	94	94
Site 3-51	Industry	No NSR within 300m study area			
Site 3-52	Industry	104	104	94	94
Site 4-1	Fire Station	98	98	88	88
Site 4-13a	PTI	99	99	89	89
Site 4-18	DCS	106	106	96	96
Site 4-21	Vehicle Depot	87	87	77	77
Site 4-23	ESS	89	89	79	79
Site 4-29	PTI	96	96	86	86
Site 4-34	HSK Station	93	93	83	83
Site 4-35	SPS	100	100	90	90
Site 4-37	ESS	94	94	84	84
Site 5-5	PTI	96	96	86	86
Site 5-13	Hospital	98	98	88	88
Site 5-19	ESS	94	94	84	84

## Appendix 4.9.1 Detailed Calculations of Fixed Plant Noise

### Predicted Cumulative Fixed Plant Noise Levels at NSR from Planned Fixed Plant Noise Sources

Assessment Level: 1 / F

NSR			Criteria, dB(A)			Noise Source		Corrected SWL / Max Allowed SWL, dB(A)			Distance between Fixed Plant Noise Source and NSR, m			Correction, dB(A)			Noise Level at NSR, dB(A)			Cumulative Noise Level at NSR, dB(A)			Compliance to Noise Criteria		
ID	Description	Assessment Height, mPD	Day	Evening	Night	ID/ Site Ref. No.	Height, mPD	Day	Evening	Night	Horizontal	Vertical	Slant	Distance	Tonal [1][2]	Screening [3][3a][3b][3c]	Day	Evening	Night	Day	Evening	Night	Day	Evening	Night
E1-IA_R01	Tseung Kong Wai	10	55	55	46	Site 2-34	22	95	95	90	170	12	170	-53	3	0	45	45	40	55	55	46	Yes	Yes	Yes
						Site 3-18	17	106	106	96	200	7	200	-54	3	0	55	55	45						
E1-IA_R02	Tseung Kong Wai	10	55	55	45	Site 2-34	22	95	95	90	135	12	136	-51	3	0	47	47	42	53	53	45	Yes	Yes	Yes
						Site 3-18	17	106	106	96	280	7	280	-57	3	0	52	52	42						
E1-IJ_R05	San Sang Tsuen	7	53	50	40	Site 1-29	25	93	93	83	200	18	201	-54	3	0	42	42	32	47	47	37	Yes	Yes	Yes
						Site 3-41	20	95	95	85	175	13	175	-53	3	0	45	45	35						
						Site 4-23	12	89	89	79	255	5	255	-56	3	0	36	36	26						
E1-IK_R04	Shek Po Tsuen	6	55	55	45	Site 1-29	25	93	93	83	45	19	49	-42	3	0	54	54	44	54	54	44	Yes	Yes	Yes
E1-IK_R05	Shek Po Tsuen	6	55	55	45	Site 1-29	25	93	93	83	110	19	112	-49	3	0	47	47	37	48	48	38	Yes	Yes	Yes
						Site 5-19	30	94	94	84	240	24	241	-56	3	0	41	41	31						
E1-IK_R06	Shek Po Tsuen	6	55	55	45	Site 5-13	62	98	98	88	100	56	115	-49	3	0	52	52	42	54	54	44	Yes	Yes	Yes
						Site 5-19	30	94	94	84	100	24	103	-48	3	0	49	49	39						
E1-OB_E11	YLPMSAA Tang Siu Tong Secondary School	8	60	60	50	Site 1-24	20	102	102	92	265	12	265	-56	3	0	49	49	39	51	51	41	Yes	Yes	Yes
						Site 5-5	14	96	96	86	150	6	150	-52	3	0	47	47	37						
E1-OB_R02	Tin Shing Court	13	60	60	50	EPS6	11	93	96	95	175	2	175	-53	-	0	40	43	42	56	56	48	Yes	Yes	Yes
						Site 1-24	20	102	102	92	110	7	110	-49	3	0	56	56	46						
E1-OB_R03	Tin Shing Court	13	60	60	50	EPS6	11	93	96	95	135	2	135	-51	-	0	43	45	45	59	59	50	Yes	Yes	Yes
						Site 1-24	20	102	102	92	80	7	80	-46	3	0	59	59	49						
E2-IA_R03	Fung Kong Tsuen	8	51	46	39	Site 3-1	15	85	80	73	30	7	31	-38	3	0	50	45	38	51	46	39	Yes	Yes	Yes
						Site 3-4	17	106	101	94	210	9	210	-54	3	-10	45	40	33						
O5-06_R13	Site 5-6	15	60	60	50	EPS5	9	80	72	78	200	6	200	-54	-	0	26	18	24	60	60	50	Yes	Yes	Yes
						Site 5-5	14	96	96	86	35	1	35	-39	3	0	60	60	50						
O5-06_R25	Site 5-6	15	60	60	50	EPS5	9	80	72	78	150	6	150	-52	-	0	28	20	26	54	54	44	Yes	Yes	Yes
						Site 5-5	14	96	96	86	70	1	70	-45	3	0	54	54	44						
P1-12_R01	Site 1-12	13	60	60	50	EPS3	8	68	67	70	75	5	75	-46	-	-5	18	17	20	18	17	20	Yes	Yes	Yes
P1-19_R11	Site 1-19	13	60	60	50	EPS1	8	76	75	75	210	5	210	-54	-	0	22	21	20	24	22	22	Yes	Yes	Yes
						EPS2	9	77	74	74	310	4	310	-58	-	0	19	16	17						
P1-21_R22	Site 1-21	15	60	60	50	EPS6	11	93	96	95	80	4	80	-46	-	0	47	49	49	53	54	50	Yes	Yes	Yes
						Site 1-24	20	102	102	92	180	5	180	-53	3	0	52	52	42						
P2-11_R21	Site 2-11	22	60	60	50	Site 2-23	14	85	85	75	85	8	85	-47	3	0	41	41	31	41	41	31	Yes	Yes	Yes
P2-24_E03	Site 2-24	8	60	60	50	Site 2-23	14	85	85	75	10	6	12	-29	3	0	59	59	49	59	59	49	Yes	Yes	Yes
P2-26_E11	Site 2-26	9	60	60	50	Site 2-23	14	85	85	75	190	5	190	-54	3	-10	24	24	14	33	29	21	Yes	Yes	Yes
						Site 3-1	15	85	80	73	240	6	240	-56	3	0	32	27	20						
P2-28_E02	Site 2-28	10	65	65	55	Site 3-1	15	85	80	73	140	5	140	-51	3	0	37	32	25	48	43	36	Yes	Yes	Yes
						Site 3-4	17	106	101	94	150	7	150	-52	3	-10	47	42	35						
P2-30_R02	Site 2-30	16	60	60	50	Site 2-34	22	95	95	90	210	6	210	-54	3	-5	39	39	34	50	45	39	Yes	Yes	Yes
						Site 3-1	15	85	80	73	255	1	255	-56	3	-5	27	22	15						
						Site 3-4	17	106	101	94	220	1	220	-55	3	-5	49	44	37						
P4-01_R02	Site 4-1	39	65	65	55	Site 3-43	30	106	106	96	140	9	140	-51	3	0	58	58	48	61	61	51	Yes	Yes	Yes
						Site 3-44	30	106	106	96	190	9	190	-54	3	-5	50	50	40						
						Site 3-45	28	104	104	94	120	11	121	-50	3	0	57	57	47						
						Site 3-46	29	104	104	94	290	10	290	-57	3	0	50	50	40						
P4-03_R01	Site 4-3	18	65	65	55	Site 3-41	20	95	95	85	250	2	250	-56	3	0	42	42	32	61	61	51	Yes	Yes	Yes
						Site 3-43	30	106	106	96	220	12	220	-55	3	0	54	54	44						
						Site 3-44	30	106	106	96	270	12	270	-57	3	-10	42	42	32						
						Site 3-45	28	104	104	94	200	10	200	-54	3	-5	48	48	38						
						Site 4-1	25	98	98	88	50	7	50	-42	3	0	59	59	49						
						Site 4-23	12	89	89	79	240	6	240	-56	3	-10	26	26	16						
P4-03_R02	Site 4-3	18	65	65	55	Site 3-41	20	95	95	85	280	2	280	-57	3	-10	31	31	21	65	65	55	Yes	Yes	Yes
						Site 3-43	30	106	106	96	200	12	200	-54	3	-5	50	50	40						
						Site 3-44	30	106	106	96	240	12	240	-56	3	-10	43	43	33						
						Site 3-45	28	104	104	94	180	10	180	-53	3	-5	49	49	39						
						Site 3-46	29	104	104	94	290	11	290	-57	3	-10	40	40	30						
						Site 4-1	25	98	98	88	25	7	26	-36	3	0	65	65	55						
						Site 4-23	12	89	89	79	260	6	260	-56	3	-10	26	26	16						



## Appendix 4.9.1 Detailed Calculations of Fixed Plant Noise

### Predicted Cumulative Fixed Plant Noise Levels at NSR from Planned Fixed Plant Noise Sources

Assessment Level: 1 / F

NSR			Criteria, dB(A)			Noise Source		Corrected SWL / Max Allowed SWL, dB(A)			Distance between Fixed Plant Noise Source and NSR, m			Correction, dB(A)			Noise Level at NSR, dB(A)			Cumulative Noise Level at NSR, dB(A)			Compliance to Noise Criteria		
ID	Description	Assessment Height, mPD	Day	Evening	Night	ID/ Site Ref. No.	Height, mPD	Day	Evening	Night	Horizontal	Vertical	Slant	Distance	Tonal [1][2]	Screening [3][3a][3b][3c]	Day	Evening	Night	Day	Evening	Night	Day	Evening	Night
P4-04_R13	Site 4-4	23	65	65	55	Site 3-43	30	106	106	96	230	7	230	-55	3	-5	49	49	39	65	65	55	Yes	Yes	Yes
						Site 3-44	30	106	106	96	85	7	85	-47	3	-5	57	57	47						
						Site 3-45	28	104	104	94	80	5	80	-46	3	0	61	61	51						
						Site 3-46	29	104	104	94	85	6	85	-47	3	0	60	60	50						
						Site 3-47	30	105	105	95	200	7	200	-54	3	0	54	54	44						
						Site 3-48	29	103	103	93	200	6	200	-54	3	0	52	52	42						
						Site 3-50	28	104	104	94	240	5	240	-56	3	0	51	51	41						
						Site 4-1	25	98	98	88	130	2	130	-50	3	-10	41	41	31						
P4-05_R03	Site 4-5	24	65	65	55	Site 3-44	30	106	106	96	265	6	265	-56	3	-5	48	48	38	65	65	55	Yes	Yes	Yes
						Site 3-45	28	104	104	94	180	4	180	-53	3	0	54	54	44						
						Site 3-46	29	104	104	94	80	5	80	-46	3	0	61	61	51						
						Site 3-47	30	105	105	95	225	6	225	-55	3	0	53	53	43						
						Site 3-48	29	103	103	93	100	5	100	-48	3	0	58	58	48						
						Site 3-50	28	104	104	94	110	4	110	-49	3	0	58	58	48						
						Site 4-13a	22	99	99	89	235	2	235	-55	3	-10	37	37	27						
						P4-05_R13	Site 4-5	24	65	65	55	Site 3-45	28	104	104	94	255	4	255						
Site 3-46	29	104	104	94	120							5	120	-50	3	0	57	57	47						
Site 3-47	30	105	105	95	270							6	270	-57	3	0	51	51	41						
Site 3-48	29	103	103	93	100							5	100	-48	3	0	58	58	48						
Site 3-50	28	104	104	94	85							4	85	-47	3	0	60	60	50						
Site 4-13a	22	99	99	89	170							2	170	-53	3	-10	39	39	29						
P4-06_R11	Site 4-6	18	60	60	50	Site 3-41	20	95	95	85	90	2	90	-47	3	0	51	51	41	52	52	42	Yes	Yes	Yes
						Site 4-1	25	98	98	88	260	7	260	-56	3	-10	35	35	25						
						Site 4-23	12	89	89	79	30	6	31	-38	3	-10	44	44	34						
						Site 3-41	20	95	95	85	100	2	100	-48	3	0	50	50	40						
P4-06_R12	Site 4-6	18	60	60	50	Site 4-1	25	98	98	88	280	7	280	-57	3	-10	34	34	24	57	57	47	Yes	Yes	Yes
						Site 4-23	12	89	89	79	5	6	8	-26	3	-10	56	56	46						
						Site 3-41	20	95	95	85	100	2	100	-48	3	0	50	50	40						
P4-10_R01	Site 4-10	26	60	60	50	Site 4-23	12	89	89	79	230	14	230	-55	3	-10	27	27	17	47	47	37	Yes	Yes	Yes
						Site 4-34	18	93	93	83	110	8	110	-49	3	0	47	47	37						
P4-10_R11	Site 4-10	26	60	60	50	Site 4-1	25	98	98	88	280	1	280	-57	3	-10	34	34	24	49	49	39	Yes	Yes	Yes
						Site 4-13a	22	99	99	89	265	4	265	-56	3	0	46	46	36						
						Site 4-23	12	89	89	79	280	14	280	-57	3	-10	25	25	15						
						Site 4-34	18	93	93	83	120	8	120	-50	3	0	46	46	36						
P4-20_R01	Site 4-20	12	60	60	50	Site 3-52	33	104	104	94	285	21	286	-57	3	0	50	50	40	57	57	47	Yes	Yes	Yes
						Site 4-18	19	106	106	96	150	7	150	-52	3	-10	47	47	37						
						Site 4-21	19	87	87	77	50	7	50	-42	3	-10	38	38	28						
						Site 4-35	21	100	100	90	80	9	80	-46	3	-10	47	47	37						
						Site 4-37	37	94	94	84	50	25	56	-43	3	0	54	54	44						
P4-20_R04	Site 4-20	12	60	60	50	Site 3-52	33	104	104	94	160	21	161	-52	3	0	55	55	45	58	58	48	Yes	Yes	Yes
						Site 4-18	19	106	106	96	190	7	190	-54	3	-10	45	45	35						
						Site 4-21	19	87	87	77	5	7	8	-27	3	-10	53	53	43						
						Site 4-35	21	100	100	90	225	9	225	-55	3	-10	38	38	28						
						Site 4-37	37	94	94	84	80	25	84	-46	3	0	51	51	41						
P4-20_R05	Site 4-20	12	60	60	50	Site 3-52	33	104	104	94	190	21	191	-54	3	0	53	53	43	57	57	47	Yes	Yes	Yes
						Site 4-18	19	106	106	96	170	7	170	-53	3	-10	46	46	36						
						Site 4-21	19	87	87	77	25	7	26	-36	3	-10	44	44	34						
						Site 4-35	21	100	100	90	190	9	190	-54	3	-10	39	39	29						
						Site 4-37	37	94	94	84	55	25	60	-44	3	0	53	53	43						
P4-22_R01	Site 4-22	19	65	65	55	Site 4-18	19	106	106	96	210	0	210	-54	3	0	55	55	45	65	65	55	Yes	Yes	Yes
						Site 4-21	19	87	87	77	140	0	140	-51	3	-10	29	29	19						
						Site 4-35	21	100	100	90	10	2	10	-28	3	-10	65	65	55						
						Site 4-37	37	94	94	84	120	18	121	-50	3	0	47	47	37						
P4-25c_R01	Site 4-25c	41	60	60	50	Site 4-13a	22	99	99	89	260	19	261	-56	3	0	46	46	36	57	57	47	Yes	Yes	Yes
						Site 4-29	20	96	96	86	175	21	176	-53	3	-10	36	36	26						
						Site 4-34	18	93	93	83	30	23	38	-40	3	0	56	56	46						
P4-25c_R11	Site 4-25c	41	60	60	50	Site 4-13a	22	99	99	89	205	19	206	-54	3	0	48	48	38	59	59	49	Yes	Yes	Yes
						Site 4-29	20	96	96	86	70	21	73	-45	3	0	54	54	44						
						Site 4-34	18	93	93	83	30	23	38	-40	3	0	56	56	46						

## Appendix 4.9.1 Detailed Calculations of Fixed Plant Noise

### Predicted Cumulative Fixed Plant Noise Levels at NSR from Planned Fixed Plant Noise Sources

Assessment Level: 1 / F

NSR			Criteria, dB(A)			Noise Source		Corrected SWL / Max Allowed SWL, dB(A)			Distance between Fixed Plant Noise Source and NSR, m			Correction, dB(A)			Noise Level at NSR, dB(A)			Cumulative Noise Level at NSR, dB(A)			Compliance to Noise Criteria				
ID	Description	Assessment Height, mPD	Day	Evening	Night	ID/ Site Ref. No.	Height, mPD	Day	Evening	Night	Horizontal	Vertical	Slant	Distance	Tonal [1][2]	Screening [3][3a][3b][3c]	Day	Evening	Night	Day	Evening	Night	Day	Evening	Night		
P4-28_R41	Site 4-28	21	60	60	50	Site 4-29	20	96	96	86	35	1	35	-39	3	0	60	60	50	60	60	50	Yes	Yes	Yes		
P4-29_R21	Site 4-29	37	60	60	50	Site 4-13a	22	99	99	89	200	15	201	-54	3	0	48	48	38	56	56	46	Yes	Yes	Yes		
						Site 4-34	18	93	93	83	40	19	44	-41	3	0	55	55	45								
						EPS4	8	73	74	76	205	28	207	-54	-	0	19	19	21	39	39	30	Yes	Yes	Yes		
P5-08_R11	Site 5-8	36	60	60	50	Site 5-5	14	96	96	86	300	22	301	-58	3	-10	31	31	21								
						Site 5-13	62	98	98	88	170	26	172	-53	3	-10	38	38	28								
						Site 5-13	62	98	98	88	45	26	52	-42	3	0	59	59	49	59	59	49	Yes	Yes	Yes		
P5-08_R31	Site 5-8	36	60	60	50	Site 5-13	62	98	98	88	45	26	52	-42	3	0	59	59	49	59	59	49	Yes	Yes	Yes		
P5-09_R32	Site 5-9	34	60	60	50	EPS4	8	73	74	76	115	26	118	-49	-	0	24	24	26	32	32	28	Yes	Yes	Yes		
						Site 5-5	14	96	96	86	290	20	291	-57	3	-10	32	32	22								
P5-14_E01	Site 5-14	9	65	65	55	Site 5-13	62	98	98	88	25	53	59	-43	3	0	58	58	48	58	58	48	Yes	Yes	Yes		
P5-16_R01	Site 5-16	17	60	60	50	EPS6	11	93	96	95	40	6	40	-40	-	-10	43	45	45	55	55	48	Yes	Yes	Yes		
						Site 1-24	20	102	102	92	130	3	130	-50	3	0	55	55	45								
P5-21_E01	Site 5-21	7	60	60	50	Site 5-13	62	98	98	88	160	55	169	-53	3	-5	43	43	33	58	58	48	Yes	Yes	Yes		
						Site 5-19	30	94	94	84	30	23	38	-40	3	0	57	57	47								
P5-34_E01	Site 5-34	8	60	60	50	Site 1-29	25	93	93	83	55	17	58	-43	3	0	53	53	43	53	53	43	Yes	Yes	Yes		

Remarks:

- [1] Hyphenated indicates the tonal correction for existing fixed plant noise sources have been considered in the corrected noise level already.
- [2] A +3dB(A) tonal corrections are assumed for all planned fixed plant noise sources.
- [3] Screening correction applies when the angle of view of the NSR on the fixed plant noise source is partially (-5 dB(A)) or fully (-10 dB(A)) blocked by buildings or terrains.
- [3a] The louvre of EPS6 is facing to the east.
- [3b] The louvre of pumping station at Site 4-35 is facing to the north.
- [3c] The opening of vehicle depot at Site 4-21 is facing to the north.
- \* Asterisk indicates no sensitive use at the assessment level.

# Appendix 4.9.1 Detailed Calculations of Fixed Plant Noise

## Predicted Cumulative Fixed Plant Noise Levels at NSR from Planned Fixed Plant Noise Sources

Assessment Level: 5 /F

NSR			Criteria, dB(A)			Noise Source		Corrected SWL / Max Allowed SWL, dB(A)			Distance between Fixed Plant Noise Source and NSR, m			Correction, dB(A)			Noise Level at NSR, dB(A)			Cumulative Noise Level at NSR, dB(A)			Compliance to Noise Criteria					
ID	Description	Assessment Height, mPD	Day	Evening	Night	ID/ Site Ref. No.	Height, mPD	Day	Evening	Night	Horizontal	Vertical	Slant	Distance	Tonal [1][2]	Screening [3][3a][3b][3c]	Day	Evening	Night	Day	Evening	Night	Day	Evening	Night			
E1-IA_R01	Tseung Kong Wai	*	55	55	46	Site 2-34	22	95	95	90	170	*	*	*	*	*	*	*	*	*	*	*	*	*	*			
						Site 3-18	17	106	106	96	200	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
E1-IA_R02	Tseung Kong Wai	*	55	55	45	Site 2-34	22	95	95	90	135	*	*	*	*	*	*	*	*	*	*	*	*	*	*			
						Site 3-18	17	106	106	96	280	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
E1-IJ_R05	San Sang Tsuen	*	53	50	40	Site 1-29	25	93	93	83	200	*	*	*	*	*	*	*	*	*	*	*	*	*	*			
						Site 3-41	20	95	95	85	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
						Site 4-23	12	89	89	79	255	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
E1-IK_R04	Shek Po Tsuen	*	55	55	45	Site 1-29	25	93	93	83	45	*	*	*	*	*	*	*	*	*	*	*	*	*				
E1-IK_R05	Shek Po Tsuen	*	55	55	45	Site 1-29	25	93	93	83	110	*	*	*	*	*	*	*	*	*	*	*	*	*	*			
						Site 5-19	30	94	94	84	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
E1-IK_R06	Shek Po Tsuen	*	55	55	45	Site 5-13	62	98	98	88	100	*	*	*	*	*	*	*	*	*	*	*	*	*	*			
						Site 5-19	30	94	94	84	100	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
E1-OB_E11	YLPMSAA Tang Siu Tong Secondary School	30	60	60	50	Site 1-24	20	102	102	92	265	10	265	-56	3	0	49	49	39	51	51	41	Yes	Yes	Yes			
						Site 5-5	14	96	96	86	150	16	151	-52	3	0	47	47	37									
E1-OB_R02	Tin Shing Court	27	60	60	50	EPS6	11	93	96	95	175	16	176	-53	-	0	40	43	42	56	56	48	Yes	Yes	Yes			
						Site 1-24	20	102	102	92	110	7	110	-49	3	0	56	56	46									
E1-OB_R03	Tin Shing Court	27	60	60	50	EPS6	11	93	96	95	135	16	136	-51	-	0	42	45	45	59	59	50	Yes	Yes	Yes			
						Site 1-24	20	102	102	92	80	7	80	-46	3	0	59	59	49									
E2-IA_R03	Fung Kong Tsuen	*	51	46	39	Site 3-1	15	85	80	73	30	*	*	*	*	*	*	*	*	*	*	*	*	*	*			
						Site 3-4	17	106	101	94	210	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
O5-06_R13	Site 5-6	30	60	60	50	EPS5	9	80	72	78	200	21	201	-54	-	0	26	18	24	59	59	49	Yes	Yes	Yes			
						Site 5-5	14	96	96	86	35	16	39	-40	3	0	59	59	49									
O5-06_R25	Site 5-6	30	60	60	50	EPS5	9	80	72	78	150	21	151	-52	-	0	28	20	26	54	54	44	Yes	Yes	Yes			
						Site 5-5	14	96	96	86	70	16	72	-45	3	0	54	54	44									
P1-12_R01	Site 1-12	28	60	60	50	EPS3	8	68	67	70	75	20	78	-46	-	-5	17	16	19	17	16	19	Yes	Yes	Yes			
P1-19_R11	Site 1-19	28	60	60	50	EPS1	8	76	75	75	210	20	211	-54	-	0	22	21	20	24	22	22	Yes	Yes	Yes			
						EPS2	9	77	74	74	310	19	311	-58	-	0	19	16	16									
P1-21_R22	Site 1-21	31	60	60	50	EPS6	11	93	96	95	80	20	82	-46	-	0	47	49	49	53	54	50	Yes	Yes	Yes			
						Site 1-24	20	102	102	92	180	11	180	-53	3	0	52	52	42									
P2-11_R21	Site 2-11	37	60	60	50	Site 2-23	14	85	85	75	85	23	88	-47	3	0	41	41	31	41	41	31	Yes	Yes	Yes			
P2-24_E03	Site 2-24	30	60	60	50	Site 2-23	14	85	85	75	10	16	19	-34	3	0	54	54	44	54	54	44	Yes	Yes	Yes			
P2-26_E11	Site 2-26	31	60	60	50	Site 2-23	14	85	85	75	190	17	191	-54	3	-10	24	24	14	33	29	21	Yes	Yes	Yes			
						Site 3-1	15	85	80	73	240	16	241	-56	3	0	32	27	20									
P2-28_E02	Site 2-28	32	65	65	55	Site 3-1	15	85	80	73	140	17	141	-51	3	0	37	32	25	48	43	36	Yes	Yes	Yes			
						Site 3-4	17	106	101	94	150	15	151	-52	3	-10	47	42	35									
P2-30_R02	Site 2-30	31	60	60	50	Site 2-34	22	95	95	90	210	9	210	-54	3	-5	39	39	34	50	45	39	Yes	Yes	Yes			
						Site 3-1	15	85	80	73	255	16	255	-56	3	-5	27	22	15									
						Site 3-4	17	106	101	94	220	14	220	-55	3	-5	49	44	37									
P4-01_R02	Site 4-1	55	65	65	55	Site 3-43	30	106	106	96	140	25	142	-51	3	0	58	58	48	61	61	51	Yes	Yes	Yes			
						Site 3-44	30	106	106	96	190	25	192	-54	3	-5	50	50	40									
						Site 3-45	28	104	104	94	120	27	123	-50	3	0	57	57	47									
						Site 3-46	29	104	104	94	290	26	291	-57	3	0	50	50	40									
P4-03_R01	Site 4-3	33	65	65	55	Site 3-41	20	95	95	85	250	13	250	-56	3	0	42	42	32	61	61	51	Yes	Yes	Yes			
						Site 3-43	30	106	106	96	220	3	220	-55	3	0	54	54	44									
						Site 3-44	30	106	106	96	270	3	270	-57	3	-10	42	42	32									
						Site 3-45	28	104	104	94	200	5	200	-54	3	-5	48	48	38									
						Site 4-1	25	98	98	88	50	8	51	-42	3	0	59	59	49									
						Site 4-23	12	89	89	79	240	21	241	-56	3	-10	26	26	16									
P4-03_R02	Site 4-3	33	65	65	55	Site 3-41	20	95	95	85	280	13	280	-57	3	-10	31	31	21	65	65	55	Yes	Yes	Yes			
						Site 3-43	30	106	106	96	200	3	200	-54	3	-5	50	50	40									
						Site 3-44	30	106	106	96	240	3	240	-56	3	-10	43	43	33									
						Site 3-45	28	104	104	94	180	5	180	-53	3	-5	49	49	39									
						Site 3-46	29	104	104	94	290	4	290	-57	3	-10	40	40	30									
						Site 4-1	25	98	98	88	25	8	26	-36	3	0	65	65	55									
						Site 4-23	12	89	89	79	260	21	261	-56	3	-10	26	26	16									

## Appendix 4.9.1 Detailed Calculations of Fixed Plant Noise

### Predicted Cumulative Fixed Plant Noise Levels at NSR from Planned Fixed Plant Noise Sources

Assessment Level: 5 /F

NSR			Criteria, dB(A)			Noise Source		Corrected SWL / Max Allowed SWL, dB(A)			Distance between Fixed Plant Noise Source and NSR, m			Correction, dB(A)			Noise Level at NSR, dB(A)			Cumulative Noise Level at NSR, dB(A)			Compliance to Noise Criteria			
ID	Description	Assessment Height, mPD	Day	Evening	Night	ID/ Site Ref. No.	Height, mPD	Day	Evening	Night	Horizontal	Vertical	Slant	Distance	Tonal [1][2]	Screening [3][3a][3b][3c]	Day	Evening	Night	Day	Evening	Night	Day	Evening	Night	
P4-04_R13	Site 4-4	38	65	65	55	Site 3-43	30	106	106	96	230	8	230	-55	3	-5	49	49	39	65	65	55	Yes	Yes	Yes	
						Site 3-44	30	106	106	96	85	8	85	-47	3	-5	57	57	47							
						Site 3-45	28	104	104	94	80	10	81	-46	3	0	61	61	51							
						Site 3-46	29	104	104	94	85	9	85	-47	3	0	60	60	50							
						Site 3-47	30	105	105	95	200	8	200	-54	3	0	54	54	44							
						Site 3-48	29	103	103	93	200	9	200	-54	3	0	52	52	42							
						Site 3-50	28	104	104	94	240	10	240	-56	3	0	51	51	41							
						Site 4-1	25	98	98	88	130	13	131	-50	3	-10	41	41	31							
P4-05_R03	Site 4-5	39	65	65	55	Site 3-44	30	106	106	96	265	9	265	-56	3	-5	48	48	38	65	65	55	Yes	Yes	Yes	
						Site 3-45	28	104	104	94	180	11	180	-53	3	0	54	54	44							
						Site 3-46	29	104	104	94	80	10	81	-46	3	0	61	61	51							
						Site 3-47	30	105	105	95	225	9	225	-55	3	0	53	53	43							
						Site 3-48	29	103	103	93	100	10	101	-48	3	0	58	58	48							
						Site 3-50	28	104	104	94	110	11	111	-49	3	0	58	58	48							
						Site 4-13a	22	99	99	89	235	17	236	-55	3	-10	37	37	27							
						P4-05_R13	Site 4-5	39	65	65	55	Site 3-45	28	104	104	94	255	11	255							-56
Site 3-46	29	104	104	94	120							10	120	-50	3	0	57	57	47							
Site 3-47	30	105	105	95	270							9	270	-57	3	0	51	51	41							
Site 3-48	29	103	103	93	100							10	101	-48	3	0	58	58	48							
Site 3-50	28	104	104	94	85							11	86	-47	3	0	60	60	50							
Site 4-13a	22	99	99	89	170							17	171	-53	3	-10	39	39	29							
P4-06_R11	Site 4-6	33	60	60	50	Site 3-41	20	95	95	85	90	13	91	-47	3	0	51	51	41	52	52	42	Yes	Yes	Yes	
						Site 4-1	25	98	98	88	260	8	260	-56	3	-10	35	35	25							
						Site 4-23	12	89	89	79	30	21	37	-39	3	-10	43	43	33							
P4-06_R12	Site 4-6	33	60	60	50	Site 3-41	20	95	95	85	100	13	101	-48	3	0	50	50	40	52	52	42	Yes	Yes	Yes	
						Site 4-1	25	98	98	88	280	8	280	-57	3	-10	34	34	24							
						Site 4-23	12	89	89	79	5	21	22	-35	3	-10	47	47	37							
P4-10_R01	Site 4-10	42	60	60	50	Site 4-23	12	89	89	79	230	30	232	-55	3	-10	27	27	17	47	47	37	Yes	Yes	Yes	
						Site 4-34	18	93	93	83	110	24	113	-49	3	0	47	47	37							
P4-10_R11	Site 4-10	42	60	60	50	Site 4-1	25	98	98	88	280	17	281	-57	3	-10	34	34	24	49	49	39	Yes	Yes	Yes	
						Site 4-13a	22	99	99	89	265	20	266	-56	3	0	46	46	36							
						Site 4-23	12	89	89	79	280	30	282	-57	3	-10	25	25	15							
						Site 4-34	18	93	93	83	120	24	122	-50	3	0	46	46	36							
P4-20_R01	Site 4-20	*	60	60	50	Site 3-52	33	104	104	94	285	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
						Site 4-18	19	106	106	96	150	*	*	*	*	*	*	*	*	*						*
						Site 4-21	19	87	87	77	50	*	*	*	*	*	*	*	*	*						*
						Site 4-35	21	100	100	90	80	*	*	*	*	*	*	*	*	*						*
						Site 4-37	37	94	94	84	50	*	*	*	*	*	*	*	*	*						*
P4-20_R04	Site 4-20	*	60	60	50	Site 3-52	33	104	104	94	160	*	*	*	*	*	*	*	*	*	*	*	*	*		
						Site 4-18	19	106	106	96	190	*	*	*	*	*	*	*	*						*	
						Site 4-21	19	87	87	77	5	*	*	*	*	*	*	*	*						*	
						Site 4-35	21	100	100	90	225	*	*	*	*	*	*	*	*						*	
						Site 4-37	37	94	94	84	80	*	*	*	*	*	*	*	*						*	
P4-20_R05	Site 4-20	*	60	60	50	Site 3-52	33	104	104	94	190	*	*	*	*	*	*	*	*	*	*	*	*	*		
						Site 4-18	19	106	106	96	170	*	*	*	*	*	*	*	*							
						Site 4-21	19	87	87	77	25	*	*	*	*	*	*	*	*							
						Site 4-35	21	100	100	90	190	*	*	*	*	*	*	*	*							
						Site 4-37	37	94	94	84	55	*	*	*	*	*	*	*	*							
P4-22_R01	Site 4-22	34	65	65	55	Site 4-18	19	106	106	96	210	15	211	-54	3	0	55	55	45	62	62	52	Yes	Yes	Yes	
						Site 4-21	19	87	87	77	140	15	141	-51	3	-10	29	29	19							
						Site 4-35	21	100	100	90	10	13	17	-32	3	-10	61	61	51							
						Site 4-37	37	94	94	84	120	3	120	-50	3	0	47	47	37							
P4-25c_R01	Site 4-25c	56	60	60	50	Site 4-13a	22	99	99	89	260	34	262	-56	3	0	46	46	36	55	55	45	Yes	Yes	Yes	
						Site 4-29	20	96	96	86	175	36	179	-53	3	-10	36	36	26							
						Site 4-34	18	93	93	83	30	38	49	-42	3	0	54	54	44							
P4-25c_R11	Site 4-25c	56	60	60	50	Site 4-13a	22	99	99	89	205	34	208	-54	3	0	48	48	38	57	57	47	Yes	Yes	Yes	
						Site 4-29	20	96	96	86	70	36	79	-46	3	0	53	53	43							
						Site 4-34	18	93	93	83	30	38	49	-42	3	0	54	54	44							

## Appendix 4.9.1 Detailed Calculations of Fixed Plant Noise

### Predicted Cumulative Fixed Plant Noise Levels at NSR from Planned Fixed Plant Noise Sources

Assessment Level: 5 / F

NSR			Criteria, dB(A)			Noise Source		Corrected SWL / Max Allowed SWL, dB(A)			Distance between Fixed Plant Noise Source and NSR, m			Correction, dB(A)			Noise Level at NSR, dB(A)			Cumulative Noise Level at NSR, dB(A)			Compliance to Noise Criteria				
ID	Description	Assessment Height, mPD	Day	Evening	Night	ID/ Site Ref. No.	Height, mPD	Day	Evening	Night	Horizontal	Vertical	Slant	Distance	Tonal [1][2]	Screening [3][3a][3b][3c]	Day	Evening	Night	Day	Evening	Night	Day	Evening	Night		
P4-28_R41	Site 4-28	36	60	60	50	Site 4-29	20	96	96	86	35	16	39	-40	3	0	59	59	49	59	59	49	Yes	Yes	Yes		
P4-29_R21	Site 4-29	53	60	60	50	Site 4-13a	22	99	99	89	200	31	202	-54	3	0	48	48	38	55	55	45	Yes	Yes	Yes		
						Site 4-34	18	93	93	83	40	35	53	-43	3	0	53	53	43								
						EPS4	8	73	74	76	205	43	210	-54	-	0	19	19	21	39	39	30	Yes	Yes	Yes		
P5-08_R11	Site 5-8	51	60	60	50	Site 5-5	14	96	96	86	300	37	302	-58	3	-10	31	31	21								
						Site 5-13	62	98	98	88	170	11	170	-53	3	-10	38	38	28								
						Site 5-13	62	98	98	88	45	11	46	-41	3	0	60	60	50	60	60	50	Yes	Yes	Yes		
P5-08_R31	Site 5-8	51	60	60	50	Site 5-13	62	98	98	88	45	11	46	-41	3	0	60	60	50	60	60	50	Yes	Yes	Yes		
P5-09_R32	Site 5-9	49	60	60	50	EPS4	8	73	74	76	115	41	122	-50	-	0	23	24	26	32	32	27	Yes	Yes	Yes		
						Site 5-5	14	96	96	86	290	35	292	-57	3	-10	32	32	22								
P5-14_E01	Site 5-14	31	65	65	55	Site 5-13	62	98	98	88	25	31	40	-40	3	0	61	61	51	61	61	51	Yes	Yes	Yes		
P5-16_R01	Site 5-16	32	60	60	50	EPS6	11	93	96	95	40	21	45	-41	-	-10	42	44	44	55	55	47	Yes	Yes	Yes		
						Site 1-24	20	102	102	92	130	12	131	-50	3	0	55	55	45								
P5-21_E01	Site 5-21	30	60	60	50	Site 5-13	62	98	98	88	160	32	163	-52	3	-5	44	44	34	60	60	50	Yes	Yes	Yes		
						Site 5-19	30	94	94	84	30	0	30	-38	3	0	59	59	49								
P5-34_E01	Site 5-34	31	60	60	50	Site 1-29	25	93	93	83	55	6	55	-43	3	0	53	53	43	53	53	43	Yes	Yes	Yes		

Remarks:

- [1] Hyphenated indicates the tonal correction for existing fixed plant noise sources have been considered in the corrected noise level already.
  - [2] A +3dB(A) tonal corrections are assumed for all planned fixed plant noise sources.
  - [3] Screening correction applies when the angle of view of the NSR on the fixed plant noise source is partially (-5 dB(A)) or fully (-10 dB(A)) blocked by buildings or terrains.
  - [3a] The louvre of EPS6 is facing to the east.
  - [3b] The louvre of pumping station at Site 4-35 is facing to the north.
  - [3c] The opening of vehicle depot at Site 4-21 is facing to the north.
- \* Asterisk indicates no sensitive use at the assessment level.

## Appendix 4.9.1 Detailed Calculations of Fixed Plant Noise

### Predicted Cumulative Fixed Plant Noise Levels at NSR from Planned Fixed Plant Noise Sources

Assessment Level: 20 /F

NSR			Criteria, dB(A)			Noise Source		Corrected SWL / Max Allowed SWL, dB(A)			Distance between Fixed Plant Noise Source and NSR, m			Correction, dB(A)			Noise Level at NSR, dB(A)			Cumulative Noise Level at NSR, dB(A)			Compliance to Noise Criteria				
ID	Description	Assessment Height, mPD	Day	Evening	Night	ID/ Site Ref. No.	Height, mPD	Day	Evening	Night	Horizontal	Vertical	Slant	Distance	Tonal [1][2]	Screening [3][3a][3b][3c]	Day	Evening	Night	Day	Evening	Night	Day	Evening	Night		
E1-IA_R01	Tseung Kong Wai	*	55	55	46	Site 2-34	22	95	95	90	170	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
						Site 3-18	17	106	106	96	200	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
E1-IA_R02	Tseung Kong Wai	*	55	55	45	Site 2-34	22	95	95	90	135	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
						Site 3-18	17	106	106	96	280	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
E1-IJ_R05	San Sang Tsuen	*	53	50	40	Site 1-29	25	93	93	83	200	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
						Site 3-41	20	95	95	85	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
						Site 4-23	12	89	89	79	255	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
E1-IK_R04	Shek Po Tsuen	*	55	55	45	Site 1-29	25	93	93	83	45	*	*	*	*	*	*	*	*	*	*	*	*	*			
E1-IK_R05	Shek Po Tsuen	*	55	55	45	Site 1-29	25	93	93	83	110	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
						Site 5-19	30	94	94	84	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
E1-IK_R06	Shek Po Tsuen	*	55	55	45	Site 5-13	62	98	98	88	100	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
						Site 5-19	30	94	94	84	100	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
E1-OB_E11	YLPMSAA Tang Siu Tong Secondary School	*	60	60	50	Site 1-24	20	102	102	92	265	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
						Site 5-5	14	96	96	86	150	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
E1-OB_R02	Tin Shing Court	61	60	60	50	EPS6	11	93	96	95	175	50	182	-53	-	0	40	42	42	56	56	47	Yes	Yes	Yes		
						Site 1-24	20	102	102	92	110	41	117	-49	3	0	56	56	46								
E1-OB_R03	Tin Shing Court	61	60	60	50	EPS6	11	93	96	95	135	50	144	-51	-	0	42	44	44	58	58	49	Yes	Yes	Yes		
						Site 1-24	20	102	102	92	80	41	90	-47	3	0	58	58	48								
E2-IA_R03	Fung Kong Tsuen	*	51	46	39	Site 3-1	15	85	80	73	30	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
						Site 3-4	17	106	101	94	210	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
O5-06_R13	Site 5-6	66	60	60	50	EPS5	9	80	72	78	200	57	208	-54	-	0	26	18	23	55	55	45	Yes	Yes	Yes		
						Site 5-5	14	96	96	86	35	52	63	-44	3	0	55	55	45								
O5-06_R25	Site 5-6	66	60	60	50	EPS5	9	80	72	78	150	57	161	-52	-	0	28	20	26	52	52	42	Yes	Yes	Yes		
						Site 5-5	14	96	96	86	70	52	87	-47	3	0	52	52	42								
P1-12_R01	Site 1-12	66	60	60	50	EPS3	8	68	67	70	75	58	95	-48	-	-5	16	15	18	16	15	18	Yes	Yes	Yes		
P1-19_R11	Site 1-19	66	60	60	50	EPS1	8	76	75	75	210	58	218	-55	-	0	22	21	20	24	22	22	Yes	Yes	Yes		
						EPS2	9	77	74	74	310	57	315	-58	-	0	19	16	16								
P1-21_R22	Site 1-21	69	60	60	50	EPS6	11	93	96	95	80	58	99	-48	-	0	45	48	47	52	53	48	Yes	Yes	Yes		
						Site 1-24	20	102	102	92	180	49	186	-53	3	0	52	52	42								
P2-11_R21	Site 2-11	*	60	60	50	Site 2-23	14	85	85	75	85	*	*	*	*	*	*	*	*	*	*	*	*	*			
P2-24_E03	Site 2-24	*	60	60	50	Site 2-23	14	85	85	75	10	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
						Site 2-26	14	85	85	75	190	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
P2-26_E11	Site 2-26	*	60	60	50	Site 3-1	15	85	80	73	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
						Site 3-1	15	85	80	73	140	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
P2-28_E02	Site 2-28	*	65	65	55	Site 3-1	15	85	80	73	140	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
						Site 3-4	17	106	101	94	150	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
P2-30_R02	Site 2-30	67	60	60	50	Site 2-34	22	95	95	90	210	45	215	-55	3	-5	38	38	33	49	45	39	Yes	Yes	Yes		
						Site 3-1	15	85	80	73	255	52	260	-56	3	-5	27	22	15								
						Site 3-4	17	106	101	94	220	50	226	-55	3	-5	49	44	37								
P4-01_R02	Site 4-1	93	65	65	55	Site 3-43	30	106	106	96	140	63	153	-52	3	0	57	57	47	61	61	51	Yes	Yes	Yes		
						Site 3-44	30	106	106	96	190	63	200	-54	3	-5	50	50	40								
						Site 3-45	28	104	104	94	120	65	136	-51	3	0	56	56	46								
						Site 3-46	29	104	104	94	290	64	297	-57	3	0	50	50	40								
P4-03_R01	Site 4-3	69	65	65	55	Site 3-41	20	95	95	85	250	49	255	-56	3	0	42	42	32	59	59	49	Yes	Yes	Yes		
						Site 3-43	30	106	106	96	220	39	223	-55	3	0	54	54	44								
						Site 3-44	30	106	106	96	270	39	273	-57	3	-10	42	42	32								
						Site 3-45	28	104	104	94	200	41	204	-54	3	-5	48	48	38								
						Site 4-1	25	98	98	88	50	44	67	-44	3	0	57	57	47								
						Site 4-23	12	89	89	79	240	57	247	-56	3	-10	26	26	16								
P4-03_R02	Site 4-3	69	65	65	55	Site 3-41	20	95	95	85	280	49	284	-57	3	-10	31	31	21	60	60	50	Yes	Yes	Yes		
						Site 3-43	30	106	106	96	200	39	204	-54	3	-5	50	50	40								
						Site 3-44	30	106	106	96	240	39	243	-56	3	-10	43	43	33								
						Site 3-45	28	104	104	94	180	41	185	-53	3	-5	49	49	39								
						Site 3-46	29	104	104	94	290	40	293	-57	3	-10	40	40	30								
						Site 4-1	25	98	98	88	25	44	51	-42	3	0	59	59	49								
						Site 4-23	12	89	89	79	260	57	266	-57	3	-10	25	25	15								

# Appendix 4.9.1 Detailed Calculations of Fixed Plant Noise

## Predicted Cumulative Fixed Plant Noise Levels at NSR from Planned Fixed Plant Noise Sources

Assessment Level: 20 /F

NSR			Criteria, dB(A)			Noise Source		Corrected SWL / Max Allowed SWL, dB(A)			Distance between Fixed Plant Noise Source and NSR, m			Correction, dB(A)			Noise Level at NSR, dB(A)			Cumulative Noise Level at NSR, dB(A)			Compliance to Noise Criteria					
ID	Description	Assessment Height, mPD	Day	Evening	Night	ID/ Site Ref. No.	Height, mPD	Day	Evening	Night	Horizontal	Vertical	Slant	Distance	Tonal [1][2]	Screening [3][3a][3b][3c]	Day	Evening	Night	Day	Evening	Night	Day	Evening	Night			
P4-04_R13	Site 4-4	74	65	65	55	Site 3-43	30	106	106	96	230	44	234	-55	3	-5	49	49	39	65	65	55	Yes	Yes	Yes			
						Site 3-44	30	106	106	96	85	44	96	-48	3	-5	56	56	46									
						Site 3-45	28	104	104	94	80	46	92	-47	3	0	60	60	50									
						Site 3-46	29	104	104	94	85	45	96	-48	3	0	59	59	49									
						Site 3-47	30	105	105	95	200	44	205	-54	3	0	54	54	44									
						Site 3-48	29	103	103	93	200	45	205	-54	3	0	52	52	42									
						Site 3-50	28	104	104	94	240	46	244	-56	3	0	51	51	41									
						Site 4-1	25	98	98	88	130	49	139	-51	3	-10	40	40	30									
P4-05_R03	Site 4-5	75	65	65	55	Site 3-44	30	106	106	96	265	45	269	-57	3	-5	47	47	37	64	64	54	Yes	Yes	Yes			
						Site 3-45	28	104	104	94	180	47	186	-53	3	0	54	54	44									
						Site 3-46	29	104	104	94	80	46	92	-47	3	0	60	60	50									
						Site 3-47	30	105	105	95	225	45	229	-55	3	0	53	53	43									
						Site 3-48	29	103	103	93	100	46	110	-49	3	0	57	57	47									
						Site 3-50	28	104	104	94	110	47	120	-50	3	0	57	57	47									
						Site 4-13a	22	99	99	89	235	53	241	-56	3	-10	36	36	26									
						P4-05_R13	Site 4-5	75	65	65	55	Site 3-45	28	104	104	94	255	47	259							-56	3	0
Site 3-46	29	104	104	94	120							46	129	-50	3	0	57	57	47									
Site 3-47	30	105	105	95	270							45	274	-57	3	0	51	51	41									
Site 3-48	29	103	103	93	100							46	110	-49	3	0	57	57	47									
Site 3-50	28	104	104	94	85							47	97	-48	3	0	59	59	49									
Site 4-13a	22	99	99	89	170							53	178	-53	3	-10	39	39	29									
P4-06_R11	Site 4-6	69	60	60	50	Site 3-41	20	95	95	85	90	49	103	-48	3	0	50	50	40	50	50	40	Yes	Yes	Yes			
						Site 4-1	25	98	98	88	260	44	264	-56	3	-10	35	35	25									
						Site 4-23	12	89	89	79	30	57	65	-44	3	-10	38	38	28									
						P4-06_R12	Site 4-6	69	60	60	50	Site 3-41	20	95	95	85	100	49	111							-49	3	0
Site 4-1	25	98	98	88	280							44	283	-57	3	-10	34	34	24									
Site 4-23	12	89	89	79	5							57	57	-43	3	-10	39	39	29									
P4-10_R01	Site 4-10	80	60	60	50	Site 4-23	12	89	89	79	230	68	240	-56	3	-10	26	26	16	46	46	36	Yes	Yes	Yes			
						Site 4-34	18	93	93	83	110	62	126	-50	3	0	46	46	36									
P4-10_R11	Site 4-10	80	60	60	50	Site 4-1	25	98	98	88	280	55	285	-57	3	-10	34	34	24	49	49	39	Yes	Yes	Yes			
						Site 4-13a	22	99	99	89	265	58	271	-57	3	0	45	45	35									
						Site 4-23	12	89	89	79	280	68	288	-57	3	-10	25	25	15									
						Site 4-34	18	93	93	83	120	62	135	-51	3	0	45	45	35									
P4-20_R01	Site 4-20	*	60	60	50	Site 3-52	33	104	104	94	285	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
						Site 4-18	19	106	106	96	150	*	*	*	*	*	*	*	*	*							*	*
						Site 4-21	19	87	87	77	50	*	*	*	*	*	*	*	*	*							*	*
						Site 4-35	21	100	100	90	80	*	*	*	*	*	*	*	*	*							*	*
						Site 4-37	37	94	94	84	50	*	*	*	*	*	*	*	*	*							*	*
P4-20_R04	Site 4-20	*	60	60	50	Site 3-52	33	104	104	94	160	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
						Site 4-18	19	106	106	96	190	*	*	*	*	*	*	*	*	*							*	*
						Site 4-21	19	87	87	77	5	*	*	*	*	*	*	*	*	*							*	*
						Site 4-35	21	100	100	90	225	*	*	*	*	*	*	*	*	*							*	*
						Site 4-37	37	94	94	84	80	*	*	*	*	*	*	*	*	*							*	*
P4-20_R05	Site 4-20	*	60	60	50	Site 3-52	33	104	104	94	190	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
						Site 4-18	19	106	106	96	170	*	*	*	*	*	*	*	*	*							*	*
						Site 4-21	19	87	87	77	25	*	*	*	*	*	*	*	*	*							*	*
						Site 4-35	21	100	100	90	190	*	*	*	*	*	*	*	*	*							*	*
						Site 4-37	37	94	94	84	55	*	*	*	*	*	*	*	*	*							*	*
P4-22_R01	Site 4-22	70	65	65	55	Site 4-18	19	106	106	96	210	51	216	-55	3	0	54	54	44	57	57	47	Yes	Yes	Yes			
						Site 4-21	19	87	87	77	140	51	149	-51	3	-10	29	29	19									
						Site 4-35	21	100	100	90	10	49	50	-42	3	-10	51	51	41									
						Site 4-37	37	94	94	84	120	33	125	-50	3	0	47	47	37									
P4-25c_R01	Site 4-25c	94	60	60	50	Site 4-13a	22	99	99	89	260	72	270	-57	3	0	45	45	35	51	51	41	Yes	Yes	Yes			
						Site 4-29	20	96	96	86	175	74	190	-54	3	-10	35	35	25									
						Site 4-34	18	93	93	83	30	76	82	-46	3	0	50	50	40									
P4-25c_R11	Site 4-25c	94	60	60	50	Site 4-13a	22	99	99	89	205	72	217	-55	3	0	47	47	37	54	54	44	Yes	Yes	Yes			
						Site 4-29	20	96	96	86	70	74	102	-48	3	0	51	51	41									
						Site 4-34	18	93	93	83	30	76	82	-46	3	0	50	50	40									

## Appendix 4.9.1 Detailed Calculations of Fixed Plant Noise

### Predicted Cumulative Fixed Plant Noise Levels at NSR from Planned Fixed Plant Noise Sources

Assessment Level: 20 /F

NSR			Criteria, dB(A)			Noise Source		Corrected SWL / Max Allowed SWL, dB(A)			Distance between Fixed Plant Noise Source and NSR, m			Correction, dB(A)			Noise Level at NSR, dB(A)			Cumulative Noise Level at NSR, dB(A)			Compliance to Noise Criteria				
ID	Description	Assessment Height, mPD	Day	Evening	Night	ID/ Site Ref. No.	Height, mPD	Day	Evening	Night	Horizontal	Vertical	Slant	Distance	Tonal [1][2]	Screening [3][3a][3b][3c]	Day	Evening	Night	Day	Evening	Night	Day	Evening	Night		
P4-28_R41	Site 4-28	72	60	60	50	Site 4-29	20	96	96	86	35	52	63	-44	3	0	55	55	45	55	55	45	Yes	Yes	Yes		
P4-29_R21	Site 4-29	91	60	60	50	Site 4-13a	22	99	99	89	200	69	211	-55	3	0	47	47	37	52	52	42	Yes	Yes	Yes		
						Site 4-34	18	93	93	83	40	73	83	-46	3	0	50	50	40								
						EPS4	8	73	74	76	205	81	221	-55	-	0	18	19	21				39	39	30	Yes	Yes
P5-08_R11	Site 5-8	89	60	60	50	Site 5-5	14	96	96	86	300	75	309	-58	3	-10	31	31	21								
						Site 5-13	62	98	98	88	170	27	172	-53	3	-10	38	38	28								
						Site 5-13	62	98	98	88	45	27	53	-42	3	0	59	59	49				59	59	49	Yes	Yes
P5-08_R31	Site 5-8	89	60	60	50	Site 5-13	62	98	98	88	45	27	53	-42	3	0	59	59	49	59	59	49	Yes	Yes	Yes		
P5-09_R32	Site 5-9	87	60	60	50	EPS4	8	73	74	76	115	79	140	-51	-	0	22	23	25	32	32	27	Yes	Yes	Yes		
						Site 5-5	14	96	96	86	290	73	299	-58	3	-10	31	31	21								
P5-14_E01	Site 5-14	*	65	65	55	Site 5-13	62	98	98	88	25	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
P5-16_R01	Site 5-16	70	60	60	50	EPS6	11	93	96	95	40	59	71	-45	-	-10	38	40	40	54	54	46	Yes	Yes	Yes		
						Site 1-24	20	102	102	92	130	50	139	-51	3	0	54	54	44								
P5-21_E01	Site 5-21	*	60	60	50	Site 5-13	62	98	98	88	160	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
						Site 5-19	30	94	94	84	30	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
P5-34_E01	Site 5-34	*	60	60	50	Site 1-29	25	93	93	83	55	*	*	*	*	*	*	*	*	*	*	*	*	*			

Remarks:

- [1] Hyphenated indicates the tonal correction for existing fixed plant noise sources have been considered in the corrected noise level already.
- [2] A +3dB(A) tonal corrections are assumed for all planned fixed plant noise sources.
- [3] Screening correction applies when the angle of view of the NSR on the fixed plant noise source is partially (-5 dB(A)) or fully (-10 dB(A)) blocked by buildings or terrains.
- [3a] The louvre of EPS6 is facing to the east.
- [3b] The louvre of pumping station at Site 4-35 is facing to the north.
- [3c] The opening of vehicle depot at Site 4-21 is facing to the north.
- \* Asterisk indicates no sensitive use at the assessment level.



## Appendix 4.9.1 Detailed Calculations of Fixed Plant Noise

### Predicted Cumulative Fixed Plant Noise Levels at NSR from Planned Fixed Plant Noise Sources

Assessment Level: 20 /F

NSR			Criteria, dB(A)			Noise Source		Corrected SWL / Max Allowed SWL, dB(A)			Distance between Fixed Plant Noise Source and NSR, m			Correction, dB(A)			Noise Level at NSR, dB(A)			Cumulative Noise Level at NSR, dB(A)			Compliance to Noise Criteria				
ID	Description	Assessment Height, mPD	Day	Evening	Night	ID/ Site Ref. No.	Height, mPD	Day	Evening	Night	Horizontal	Vertical	Slant	Distance	Tonal [1][2]	Screening [3][3a][3b][3c]	Day	Evening	Night	Day	Evening	Night	Day	Evening	Night		
E1-IA_R01	Tseung Kong Wai	*	55	55	46	Site 2-34	22	95	95	90	170	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
						Site 3-18	17	106	106	96	200	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
E1-IA_R02	Tseung Kong Wai	*	55	55	45	Site 2-34	22	95	95	90	135	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
						Site 3-18	17	106	106	96	280	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
E1-IJ_R05	San Sang Tsuen	*	53	50	40	Site 1-29	25	93	93	83	200	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
						Site 3-41	20	95	95	85	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
						Site 4-23	12	89	89	79	255	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
E1-IK_R04	Shek Po Tsuen	*	55	55	45	Site 1-29	25	93	93	83	45	*	*	*	*	*	*	*	*	*	*	*	*	*			
E1-IK_R05	Shek Po Tsuen	*	55	55	45	Site 1-29	25	93	93	83	110	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
						Site 5-19	30	94	94	84	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
E1-IK_R06	Shek Po Tsuen	*	55	55	45	Site 5-13	62	98	98	88	100	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
						Site 5-19	30	94	94	84	100	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
E1-OB_E11	YLPMSAA Tang Siu Tong Secondary School	*	60	60	50	Site 1-24	20	102	102	92	265	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
						Site 5-5	14	96	96	86	150	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
E1-OB_R02	Tin Shing Court	61	60	60	50	EPS6	11	93	96	95	175	50	182	-53	-	0	40	42	42	56	56	47	Yes	Yes	Yes		
						Site 1-24	20	102	102	92	110	41	117	-49	3	0	56	56	46								
E1-OB_R03	Tin Shing Court	61	60	60	50	EPS6	11	93	96	95	135	50	144	-51	-	0	42	44	44	58	58	49	Yes	Yes	Yes		
						Site 1-24	20	102	102	92	80	41	90	-47	3	0	58	58	48								
E2-IA_R03	Fung Kong Tsuen	*	51	46	39	Site 3-1	15	85	80	73	30	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
						Site 3-4	17	106	101	94	210	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
O5-06_R13	Site 5-6	66	60	60	50	EPS5	9	80	72	78	200	57	208	-54	-	0	26	18	23	55	55	45	Yes	Yes	Yes		
						Site 5-5	14	96	96	86	35	52	63	-44	3	0	55	55	45								
O5-06_R25	Site 5-6	66	60	60	50	EPS5	9	80	72	78	150	57	161	-52	-	0	28	20	26	52	52	42	Yes	Yes	Yes		
						Site 5-5	14	96	96	86	70	52	87	-47	3	0	52	52	42								
P1-12_R01	Site 1-12	66	60	60	50	EPS3	8	68	67	70	75	58	95	-48	-	-5	16	15	18	16	15	18	Yes	Yes	Yes		
P1-19_R11	Site 1-19	66	60	60	50	EPS1	8	76	75	75	210	58	218	-55	-	0	22	21	20	24	22	22	Yes	Yes	Yes		
						EPS2	9	77	74	74	310	57	315	-58	-	0	19	16	16								
P1-21_R22	Site 1-21	69	60	60	50	EPS6	11	93	96	95	80	58	99	-48	-	0	45	48	47	52	53	48	Yes	Yes	Yes		
						Site 1-24	20	102	102	92	180	49	186	-53	3	0	52	52	42								
P2-11_R21	Site 2-11	*	60	60	50	Site 2-23	14	85	85	75	85	*	*	*	*	*	*	*	*	*	*	*	*	*			
P2-24_E03	Site 2-24	*	60	60	50	Site 2-23	14	85	85	75	10	*	*	*	*	*	*	*	*	*	*	*	*	*			
P2-26_E11	Site 2-26	*	60	60	50	Site 2-23	14	85	85	75	190	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
						Site 3-1	15	85	80	73	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
P2-28_E02	Site 2-28	*	65	65	55	Site 3-1	15	85	80	73	140	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
						Site 3-4	17	106	101	94	150	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
P2-30_R02	Site 2-30	67	60	60	50	Site 2-34	22	95	95	90	210	45	215	-55	3	-5	38	38	33	49	45	39	Yes	Yes	Yes		
						Site 3-1	15	85	80	73	255	52	260	-56	3	-5	27	22	15								
						Site 3-4	17	106	101	94	220	50	226	-55	3	-5	49	44	37								
P4-01_R02	Site 4-1	93	65	65	55	Site 3-43	30	106	106	96	140	63	153	-52	3	0	57	57	47	61	61	51	Yes	Yes	Yes		
						Site 3-44	30	106	106	96	190	63	200	-54	3	-5	50	50	40								
						Site 3-45	28	104	104	94	120	65	136	-51	3	0	56	56	46								
						Site 3-46	29	104	104	94	290	64	297	-57	3	0	50	50	40								
P4-03_R01	Site 4-3	69	65	65	55	Site 3-41	20	95	95	85	250	49	255	-56	3	0	42	42	32	59	59	49	Yes	Yes	Yes		
						Site 3-43	30	106	106	96	220	39	223	-55	3	0	54	54	44								
						Site 3-44	30	106	106	96	270	39	273	-57	3	-10	42	42	32								
						Site 3-45	28	104	104	94	200	41	204	-54	3	-5	48	48	38								
						Site 4-1	25	98	98	88	50	44	67	-44	3	0	57	57	47								
						Site 4-23	12	89	89	79	240	57	247	-56	3	-10	26	26	16								
P4-03_R02	Site 4-3	69	65	65	55	Site 3-41	20	95	95	85	280	49	284	-57	3	-10	31	31	21	60	60	50	Yes	Yes	Yes		
						Site 3-43	30	106	106	96	200	39	204	-54	3	-5	50	50	40								
						Site 3-44	30	106	106	96	240	39	243	-56	3	-10	43	43	33								
						Site 3-45	28	104	104	94	180	41	185	-53	3	-5	49	49	39								
						Site 3-46	29	104	104	94	290	40	293	-57	3	-10	40	40	30								
						Site 4-1	25	98	98	88	25	44	51	-42	3	0	59	59	49								
						Site 4-23	12	89	89	79	260	57	266	-57	3	-10	25	25	15								

# Appendix 4.9.1 Detailed Calculations of Fixed Plant Noise

## Predicted Cumulative Fixed Plant Noise Levels at NSR from Planned Fixed Plant Noise Sources

Assessment Level: 20 /F

NSR			Criteria, dB(A)			Noise Source		Corrected SWL / Max Allowed SWL, dB(A)			Distance between Fixed Plant Noise Source and NSR, m			Correction, dB(A)			Noise Level at NSR, dB(A)			Cumulative Noise Level at NSR, dB(A)			Compliance to Noise Criteria		
ID	Description	Assessment Height, mPD	Day	Evening	Night	ID/ Site Ref. No.	Height, mPD	Day	Evening	Night	Horizontal	Vertical	Slant	Distance	Tonal [1][2]	Screening [3][3a][3b][3c]	Day	Evening	Night	Day	Evening	Night	Day	Evening	Night
P4-04_R13	Site 4-4	74	65	65	55	Site 3-43	30	106	106	96	230	44	234	-55	3	-5	49	49	39	65	65	55	Yes	Yes	Yes
						Site 3-44	30	106	106	96	85	44	96	-48	3	-5	56	56	46						
						Site 3-45	28	104	104	94	80	46	92	-47	3	0	60	60	50						
						Site 3-46	29	104	104	94	85	45	96	-48	3	0	59	59	49						
						Site 3-47	30	105	105	95	200	44	205	-54	3	0	54	54	44						
						Site 3-48	29	103	103	93	200	45	205	-54	3	0	52	52	42						
						Site 3-50	28	104	104	94	240	46	244	-56	3	0	51	51	41						
						Site 4-1	25	98	98	88	130	49	139	-51	3	-10	40	40	30						
P4-05_R03	Site 4-5	75	65	65	55	Site 3-44	30	106	106	96	265	45	269	-57	3	-5	47	47	37	64	64	54	Yes	Yes	Yes
						Site 3-45	28	104	104	94	180	47	186	-53	3	0	54	54	44						
						Site 3-46	29	104	104	94	80	46	92	-47	3	0	60	60	50						
						Site 3-47	30	105	105	95	225	45	229	-55	3	0	53	53	43						
						Site 3-48	29	103	103	93	100	46	110	-49	3	0	57	57	47						
						Site 3-50	28	104	104	94	110	47	120	-50	3	0	57	57	47						
						Site 4-13a	22	99	99	89	235	53	241	-56	3	-10	36	36	26						
						P4-05_R13	Site 4-5	75	65	65	55	Site 3-45	28	104	104	94	255	47	259						
Site 3-46	29	104	104	94	120							46	129	-50	3	0	57	57	47						
Site 3-47	30	105	105	95	270							45	274	-57	3	0	51	51	41						
Site 3-48	29	103	103	93	100							46	110	-49	3	0	57	57	47						
Site 3-50	28	104	104	94	85							47	97	-48	3	0	59	59	49						
Site 4-13a	22	99	99	89	170							53	178	-53	3	-10	39	39	29						
P4-06_R11	Site 4-6	69	60	60	50	Site 3-41	20	95	95	85	90	49	103	-48	3	0	50	50	40	50	50	40	Yes	Yes	Yes
						Site 4-1	25	98	98	88	260	44	264	-56	3	-10	35	35	25						
						Site 4-23	12	89	89	79	30	57	65	-44	3	-10	38	38	28						
						P4-06_R12	Site 4-6	69	60	60	50	Site 3-41	20	95	95	85	100	49	111						
Site 4-1	25	98	98	88	280							44	283	-57	3	-10	34	34	24						
Site 4-23	12	89	89	79	5							57	57	-43	3	-10	39	39	29						
P4-10_R01	Site 4-10	80	60	60	50	Site 4-23	12	89	89	79	230	68	240	-56	3	-10	26	26	16	46	46	36	Yes	Yes	Yes
						Site 4-34	18	93	93	83	110	62	126	-50	3	0	46	46	36						
P4-10_R11	Site 4-10	80	60	60	50	Site 4-1	25	98	98	88	280	55	285	-57	3	-10	34	34	24	49	49	39	Yes	Yes	Yes
						Site 4-13a	22	99	99	89	265	58	271	-57	3	0	45	45	35						
						Site 4-23	12	89	89	79	280	68	288	-57	3	-10	25	25	15						
						Site 4-34	18	93	93	83	120	62	135	-51	3	0	45	45	35						
P4-20_R01	Site 4-20	*	60	60	50	Site 3-52	33	104	104	94	285	*	*	*	*	*	*	*	*	*	*	*	*	*	*
						Site 4-18	19	106	106	96	150	*	*	*	*	*	*	*	*						
						Site 4-21	19	87	87	77	50	*	*	*	*	*	*	*	*						
						Site 4-35	21	100	100	90	80	*	*	*	*	*	*	*	*						
						Site 4-37	37	94	94	84	50	*	*	*	*	*	*	*	*						
P4-20_R04	Site 4-20	*	60	60	50	Site 3-52	33	104	104	94	160	*	*	*	*	*	*	*	*	*	*	*	*	*	*
						Site 4-18	19	106	106	96	190	*	*	*	*	*	*	*	*						
						Site 4-21	19	87	87	77	5	*	*	*	*	*	*	*	*						
						Site 4-35	21	100	100	90	225	*	*	*	*	*	*	*	*						
						Site 4-37	37	94	94	84	80	*	*	*	*	*	*	*	*						
P4-20_R05	Site 4-20	*	60	60	50	Site 3-52	33	104	104	94	190	*	*	*	*	*	*	*	*	*	*	*	*	*	*
						Site 4-18	19	106	106	96	170	*	*	*	*	*	*	*	*						
						Site 4-21	19	87	87	77	25	*	*	*	*	*	*	*	*						
						Site 4-35	21	100	100	90	190	*	*	*	*	*	*	*	*						
						Site 4-37	37	94	94	84	55	*	*	*	*	*	*	*	*						
P4-22_R01	Site 4-22	70	65	65	55	Site 4-18	19	106	106	96	210	51	216	-55	3	0	54	54	44	57	57	47	Yes	Yes	Yes
						Site 4-21	19	87	87	77	140	51	149	-51	3	-10	29	29	19						
						Site 4-35	21	100	100	90	10	49	50	-42	3	-10	51	51	41						
						Site 4-37	37	94	94	84	120	33	125	-50	3	0	47	47	37						
P4-25c_R01	Site 4-25c	94	60	60	50	Site 4-13a	22	99	99	89	260	72	270	-57	3	0	45	45	35	51	51	41	Yes	Yes	Yes
						Site 4-29	20	96	96	86	175	74	190	-54	3	-10	35	35	25						
						Site 4-34	18	93	93	83	30	76	82	-46	3	0	50	50	40						
P4-25c_R11	Site 4-25c	94	60	60	50	Site 4-13a	22	99	99	89	205	72	217	-55	3	0	47	47	37	54	54	44	Yes	Yes	Yes
						Site 4-29	20	96	96	86	70	74	102	-48	3	0	51	51	41						
						Site 4-34	18	93	93	83	30	76	82	-46	3	0	50	50	40						

## Appendix 4.9.1 Detailed Calculations of Fixed Plant Noise

### Predicted Cumulative Fixed Plant Noise Levels at NSR from Planned Fixed Plant Noise Sources

Assessment Level: 20 /F

NSR			Criteria, dB(A)			Noise Source		Corrected SWL / Max Allowed SWL, dB(A)			Distance between Fixed Plant Noise Source and NSR, m			Correction, dB(A)			Noise Level at NSR, dB(A)			Cumulative Noise Level at NSR, dB(A)			Compliance to Noise Criteria				
ID	Description	Assessment Height, mPD	Day	Evening	Night	ID/ Site Ref. No.	Height, mPD	Day	Evening	Night	Horizontal	Vertical	Slant	Distance	Tonal [1][2]	Screening [3][3a][3b][3c]	Day	Evening	Night	Day	Evening	Night	Day	Evening	Night		
P4-28_R41	Site 4-28	72	60	60	50	Site 4-29	20	96	96	86	35	52	63	-44	3	0	55	55	45	55	55	45	Yes	Yes	Yes		
P4-29_R21	Site 4-29	91	60	60	50	Site 4-13a	22	99	99	89	200	69	211	-55	3	0	47	47	37	52	52	42	Yes	Yes	Yes		
						Site 4-34	18	93	93	83	40	73	83	-46	3	0	50	50	40								
						EPS4	8	73	74	76	205	81	221	-55	-	0	18	19	21								
P5-08_R11	Site 5-8	89	60	60	50	Site 5-13	14	96	96	86	300	75	309	-58	3	-10	31	31	21	39	39	30	Yes	Yes	Yes		
						Site 5-13	62	98	98	88	170	27	172	-53	3	-10	38	38	28								
						Site 5-13	62	98	98	88	45	27	53	-42	3	0	59	59	49								
P5-08_R31	Site 5-8	89	60	60	50	Site 5-13	62	98	98	88	45	27	53	-42	3	0	59	59	49	59	59	49	Yes	Yes	Yes		
P5-09_R32	Site 5-9	87	60	60	50	EPS4	8	73	74	76	115	79	140	-51	-	0	22	23	25	32	32	27	Yes	Yes	Yes		
						Site 5-5	14	96	96	86	290	73	299	-58	3	-10	31	31	21								
P5-14_E01	Site 5-14	*	65	65	55	Site 5-13	62	98	98	88	25	*	*	*	*	*	*	*	*	*	*	*	*	*			
P5-16_R01	Site 5-16	70	60	60	50	EPS6	11	93	96	95	40	59	71	-45	-	-10	38	40	40	54	54	46	Yes	Yes	Yes		
						Site 1-24	20	102	102	92	130	50	139	-51	3	0	54	54	44								
P5-21_E01	Site 5-21	*	60	60	50	Site 5-13	62	98	98	88	160	*	*	*	*	*	*	*	*	*	*	*	*	*			
						Site 5-19	30	94	94	84	30	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
P5-34_E01	Site 5-34	*	60	60	50	Site 1-29	25	93	93	83	55	*	*	*	*	*	*	*	*	*	*	*	*	*			

Remarks:

- [1] Hyphenated indicates the tonal correction for existing fixed plant noise sources have been considered in the corrected noise level already.
- [2] A +3dB(A) tonal corrections are assumed for all planned fixed plant noise sources.
- [3] Screening correction applies when the angle of view of the NSR on the fixed plant noise source is partially (-5 dB(A)) or fully (-10 dB(A)) blocked by buildings or terrains.
- [3a] The louvre of EPS6 is facing to the east.
- [3b] The louvre of pumping station at Site 4-35 is facing to the north.
- [3c] The opening of vehicle depot at Site 4-21 is facing to the north.
- \* Asterisk indicates no sensitive use at the assessment level.