



REPORT REFERENCE:

SA - 5146

INTERNAL NOISE ASSESSMENT

CLIENT:

Taylor Wimpey Southern Counties

Colvedene Court

Wessex Business Park

Colden Common

Hampshire

SO21 1WP

SITE:

Land at Ferring

Littlehampton Road

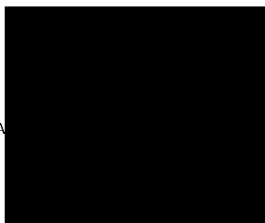
Ferring

West Sussex

SURVEY DATES:

21st – 25th September 2017

Report Presented By
Mr. B. J. Scrivener MIOA



Sound Advice Acoustics Ltd
2 West Links, Tollgate, Chandlers Ford, Hampshire, SO53 3TG



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1 INTRODUCTION

Internal noise levels were recorded in the first floor bedroom of Plot 34 & 35 facing Littlehampton Road, as the planning condition stated that:

Before first occupation of dwellings on proposed plots 1 – 4, 34 – 36 and 37 – 40 as determined on Proposed Site Layout FD13-1121-55 Rev A, post validation testing shall be undertaken by a competent person to determine compliance with BS8233: 2014 as stated in the acoustic report SA 2613/RV.04 produced by Sound Advice acoustics Ltd. This must be submitted and agreed in writing with the local planning authority before first occupation.

The measurements were taken over continuous 15 minute periods and are averaged over the relevant assessment periods as agreed.

The following tabulated results have been evaluated from the attached figures 1- 8 for internal measurements.

These measurements have demonstrated compliance with the relevant standards and further validate the 3D CADNA A model previously submitted.

Therefore at this stage no further remedial works are required with regards to acoustics.

2 APPARATUS

The equipment was calibrated using a sound pressure level of 114.0 dB at an octave band centre frequency of 1000Hz with reference to $2 \times 10^{-5} \text{ Nm}^{-2}$ before and after the tests and the equipment set to have no inaccuracy greater than 0.2dB.

All the following equipment was calibrated in accordance with the laboratory accreditation requirements of the United Kingdom Accreditation Service (UKAS) on the following dates. Calibration schedules are implemented within Sound Advice Acoustics Ltd in accordance with UKAS directive LAB 23.

2.1 Norsonic noise meter s/n 31632 environmental testing

Description	Make	Type	Serial No.	Calibration Intervals	Last Calibrated	Next Due Calibration
Integrated Sound Level Meter	Norsonic	118	<u>31632</u>	2 YEARS	25.04.2016	25.04.2018
12.5mm Microphone (with windshield)	Norsonic	1220	<u>179711</u>	2 YEARS	25.04.2016	25.04.2018
Microphone Pre – Amplifier	Norsonic	1201	<u>30479</u>	2 YEARS	25.04.2016	25.04.2018

2.2 Norsonic noise meter s/n 1403140 environmental testing

Description	Make	Type	Serial No.	Calibration Intervals	Last Calibrated	Next Due Calibration
Integrated Sound Level Meter	Norsonic	140	<u>1403140</u>	2 YEARS	13.06.2016	13.06.2018
12.5mm Microphone (with windshield)	Norsonic	1220	<u>52260</u>	2 YEARS	13.06.2016	13.06.2018
Microphone Pre – Amplifier	Norsonic	1201	<u>30233</u>	2 YEARS	13.06.2016	13.06.2018

Full calibration certificates are available upon request.

3 INDOOR LIVING AREAS

BS 8233: 2014 set the following parameters as target levels that should be designed to within rooms such as Living Rooms and Bedrooms.

Table 2 Indoor ambient noise levels in spaces when they are unoccupied and privacy is also important

Objective	Typical situations	Design Range
		$L_{Aeq,t}$ dB
Typical noise levels for acoustic privacy in shared spaces	Restaurant	40 – 55
	Open plan office	45 – 50
	Night club, public house	40 – 45
	Ballroom, banqueting hall	35 – 40
	Living room	35 – 40

NOTE See Noise control in building services [28] and BS EN ISO 3382.

Table 4 Indoor ambient noise levels for dwellings

Activity	Location	07:00 – 23:00	23:00 – 07:00
Resting	Living Room	35 dB $L_{Aeq, 16 \text{ HOUR}}$	--
Dining	Dining Room / Area	40 dB $L_{Aeq, 16 \text{ HOUR}}$	--
Sleeping (daytime resting)	Bedroom	35 dB $L_{Aeq, 16 \text{ HOUR}}$	30 dB $L_{Aeq, 8 \text{ HOUR}}$

Plot 34 Daytime Internal Noise Levels $L_{Aeq, 16 \text{ HOUR}}$ dB

Thursday 21 st September 2017	Friday 22nd September 2017	Saturday 23rd September 2017	Sunday 24th September 2017
31.4	26.9	24.1	24.6

Plot 34 Night Time Internal Noise Levels $L_{Aeq, 8 \text{ HOUR}}$ dB

Thursday 21 st September 2017	Friday 22nd September 2017	Saturday 23rd September 2017	Sunday 24th September 2017
20.8	18.5	17.9	18.8

Plot 35 Daytime Internal Noise Levels $L_{Aeq, 16 \text{ HOUR}}$ dB

Thursday 21 st September 2017	Friday 22nd September 2017	Saturday 23rd September 2017	Sunday 24th September 2017
34.9	27.3	25.1	25.3

Plot 35 Night Time Internal Noise Levels $L_{Aeq, 8 \text{ HOUR}}$ dB

Thursday 21 st September 2017	Friday 22nd September 2017	Saturday 23rd September 2017	Sunday 24th September 2017
21.8	18.6	18.6	20.1

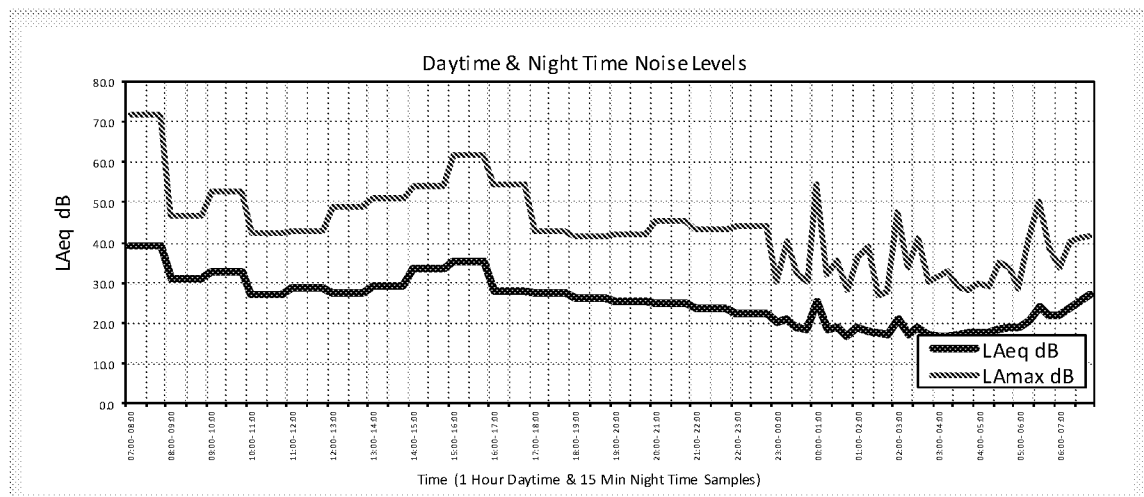
4 RESULTS

4.1 Plot 34, 21st – 22nd September 2017

NOISE LEVEL SUMMARY ASSESSMENT		Octave Band Centre Frequency (Hz)										
Date / Time	L _{Aeq}	L _{Amax}	31.5	63	125	250	500	1.0k	2.0k	4.0k	8.0k	16.0k
DAYTIME 07:00 - 23:00 L_{Aeq} 16 HOUR & Corr. representing L_{Amax} 16 HOUR	31.4	60.3	50.9	47.4	36.5	34.1	23.3	24.1	23.3	22.0	19.0	14.7
NIGHT TIME 23:00 - 07:00 L_{Aeq} 8 HOUR & Corr. representing L_{Amax} 8 HOUR	20.8	42.6	39.0	36.4	24.8	25.3	11.8	13.6	10.4	10.4	10.8	10.3

DAYTIME NOISE LEVELS 07:00 - 23:00 1 HOUR SAMPLES		Octave Band Centre Frequency (Hz)										
Date / Time	L _{Aeq}	L _{Amax}	31.5	63	125	250	500	1.0 k	2.0 k	4.0 k	8.0 k	16.0 k
07:00 - 08:00	39.1	71.6	53.9	53.8	36.5	34.1	27.1	32.8	34.0	30.5	28.3	23.7
08:00 - 09:00	31.2	46.8	51.8	48.2	40.2	35.3	25.9	23.2	16.4	14.3	11.2	10.7
09:00 - 10:00	32.8	52.9	53.3	48.0	40.2	38.0	28.0	25.1	20.6	18.5	11.6	10.8
10:00 - 11:00	26.9	42.3	51.5	45.6	31.4	32.6	19.5	20.2	14.1	12.1	11.0	10.3
11:00 - 12:00	28.7	42.9	52.3	46.7	34.2	33.6	23.4	21.9	15.7	13.3	10.9	10.3
12:00 - 13:00	27.5	49.0	51.5	46.7	32.7	33.2	20.0	20.4	14.4	13.2	11.1	10.3
13:00 - 14:00	29.1	51.1	53.2	48.8	35.7	33.7	21.6	21.7	17.0	16.0	12.0	10.5
14:00 - 15:00	33.4	54.1	53.3	47.8	36.6	34.9	24.6	24.3	23.8	28.0	22.1	15.1
15:00 - 16:00	35.3	62.0	53.5	50.0	44.2	39.7	26.9	23.2	21.6	25.8	24.3	18.2
16:00 - 17:00	28.1	54.4	49.5	45.1	32.3	32.3	23.0	21.3	17.3	17.2	11.0	10.3
17:00 - 18:00	27.4	42.7	47.2	44.5	30.4	32.3	19.2	21.1	17.1	16.8	10.9	10.3
18:00 - 19:00	26.4	41.5	47.1	44.2	29.7	31.1	18.6	21.0	15.4	13.2	10.8	10.3
19:00 - 20:00	25.2	42.1	45.6	42.9	29.2	29.9	17.1	19.7	14.3	12.1	10.8	10.3
20:00 - 21:00	24.8	45.3	43.5	40.9	28.4	30.1	16.6	18.8	13.7	11.7	10.8	10.3
21:00 - 22:00	23.7	43.1	42.2	40.5	26.8	28.4	15.4	17.8	13.0	11.4	10.8	10.3
22:00 - 23:00	22.5	44.2	40.2	37.6	26.3	28.0	14.5	15.8	11.8	11.0	10.8	10.3

NIGHT TIME NOISE LEVELS 23:00 - 07:00 15 MINUTE SAMPLES		Octave Band Centre Frequency (Hz)										
Date / Time	L _{Aeq}	L _{Amax}	31.5	63	125	250	500	1.0 k	2.0 k	4.0 k	8.0 k	16.0 k
23:00 - 23:15	20.0	30.2	38.3	36.5	21.3	22.5	11.0	13.7	11.0	10.6	10.8	10.3
23:15 - 23:30	21.0	40.3	35.8	36.3	26.5	28.0	12.4	13.2	10.6	10.8	10.8	10.3
23:30 - 23:45	19.1	32.1	35.5	32.7	20.2	21.1	9.8	12.7	10.2	10.4	10.8	10.3
23:45 - 00:00	16.6	30.4	33.3	29.0	16.4	20.8	9.5	12.2	9.5	10.2	10.8	10.3
00:00 - 00:15	25.3	54.6	37.7	34.1	33.6	32.4	14.8	13.6	10.8	10.7	10.8	10.3
00:15 - 00:30	16.6	32.0	35.8	31.0	17.8	20.3	9.5	12.0	9.8	10.3	10.8	10.3
00:30 - 00:45	16.8	35.6	32.9	30.0	21.9	21.8	9.4	11.1	9.5	10.3	10.8	10.3
00:45 - 01:00	16.9	28.0	32.7	27.3	13.9	15.3	7.0	8.5	8.7	10.1	10.8	10.3
01:00 - 01:15	16.7	36.5	29.9	31.8	21.2	21.5	9.3	10.6	9.4	10.3	10.8	10.3
01:15 - 01:30	17.8	36.9	34.7	30.6	16.2	19.2	8.4	10.7	9.1	10.1	10.8	10.3
01:30 - 01:45	17.4	26.9	32.6	28.0	16.2	18.3	7.7	9.4	8.8	10.1	10.8	10.3
01:45 - 02:00	17.1	27.6	29.5	28.2	14.1	16.5	8.9	8.7	8.8	10.1	10.8	10.3
02:00 - 02:15	21.2	47.7	32.5	27.6	24.2	29.0	10.3	9.6	8.7	10.0	10.8	10.3
02:15 - 02:30	17.2	33.8	36.6	31.0	15.0	16.9	7.7	9.0	8.6	10.0	10.8	10.3
02:30 - 02:45	16.7	41.1	30.7	31.0	28.1	20.5	8.9	9.8	8.6	10.0	10.8	10.3
02:45 - 03:00	17.2	30.4	28.6	25.3	13.8	16.4	7.4	9.6	8.7	10.0	10.8	10.3
03:00 - 03:15	16.7	31.7	27.8	25.4	12.5	14.8	6.2	8.3	8.4	10.0	10.8	10.3
03:15 - 03:30	16.9	33.1	30.9	26.6	13.1	16.2	6.7	8.4	8.5	10.0	10.8	10.3
03:30 - 03:45	17.2	29.0	31.6	27.7	14.7	16.3	7.5	9.3	8.8	10.1	10.8	10.3
03:45 - 04:00	17.8	28.3	32.8	35.3	15.4	17.5	8.1	10.5	8.9	10.1	10.8	10.3
04:00 - 04:15	17.5	30.1	34.1	34.4	15.5	16.9	7.7	9.5	8.8	10.1	10.8	10.3
04:15 - 04:30	17.6	29.0	35.8	30.0	15.7	18.0	8.2	9.7	9.0	10.1	10.8	10.3
04:30 - 04:45	16.6	35.0	36.9	32.5	16.6	21.3	9.6	11.2	9.3	10.2	10.8	10.3
04:45 - 05:00	16.0	33.6	37.5	32.6	20.3	21.4	11.0	11.9	9.8	10.3	10.8	10.3
05:00 - 05:15	16.7	28.4	36.1	34.3	16.2	20.3	9.5	12.1	9.6	10.2	10.8	10.3
05:15 - 05:30	20.8	41.2	41.1	34.0	23.7	26.3	11.5	13.9	10.3	10.3	10.8	10.3
05:30 - 05:45	24.2	50.4	39.7	35.6	32.1	30.6	13.2	15.5	11.1	10.5	10.8	10.3
05:45 - 06:00	22.1	38.4	41.9	37.7	25.3	27.0	13.9	15.7	11.4	10.6	10.8	10.3
06:00 - 06:15	22.1	34.0	42.5	36.9	24.6	26.4	14.4	16.3	11.7	10.8	10.8	10.3
06:15 - 06:30	23.5	40.1	42.5	38.8	26.7	28.1	15.9	17.9	12.8	11.0	10.8	10.3
06:30 - 06:45	25.4	41.1	46.6	40.4	28.3	31.1	17.4	19.7	14.2	11.7	10.8	10.3
06:45 - 07:00	27.1	41.7	47.9	48.1	30.8	31.8	19.1	21.1	15.4	12.1	10.8	10.3

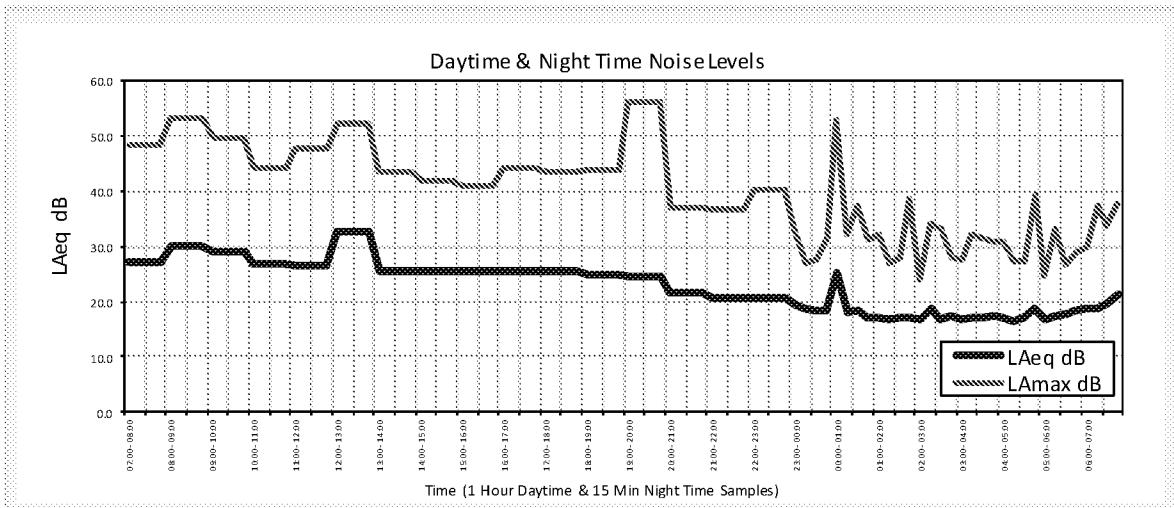


4.2 Plot 34, 22nd – 23rd September 2017

NOISE LEVEL SUMMARY ASSESSMENT			Octave Band Centre Frequency (Hz)									
Date / Time	LAeq	LAmaz	31.5	63	125	250	500	1.0k	2.0k	4.0k	8.0k	16.0k
DAYTIME 07:00 - 23:00 LAeq 16 HOUR & Cor responding LAmaz 16 HOUR	26.9	48.6	51.5	47.4	34.0	32.4	22.7	16.2	11.6	11.0	11.0	10.2
NIGHTTIME 23:00 - 07:00 LAeq 8 HOUR & Cor responding LAmaz 8 HOUR	18.5	39.0	38.8	36.5	24.1	21.8	7.4	7.7	8.3	10.0	10.8	10.1

DAYTIME NOISE LEVELS 07:00 - 23:00 1 HOUR SAMPLES			Octave Band Centre Frequency (Hz)									
Date / Time	LAeq	LAmaz	31.5	63	125	250	500	1.0 k	2.0 k	4.0 k	8.0 k	16.0 k
07:00 - 08:00	27.3	48.2	51.0	47.1	33.6	32.9	18.8	19.6	14.3	11.8	10.9	10.3
08:00 - 09:00	30.2	53.2	53.3	49.7	37.0	37.4	20.1	20.9	14.4	12.1	11.3	10.3
09:00 - 10:00	29.2	49.5	55.7	49.4	36.5	35.4	19.9	20.3	13.1	11.1	10.9	10.4
10:00 - 11:00	26.9	44.0	54.1	48.3	35.1	32.9	16.7	16.1	10.9	10.5	10.8	10.2
11:00 - 12:00	26.5	47.6	52.4	48.4	35.2	32.4	16.2	13.8	10.9	10.7	10.9	10.1
12:00 - 13:00	32.6	52.2	52.3	49.3	36.8	36.8	33.7	18.4	13.2	12.5	10.9	10.1
13:00 - 14:00	25.5	43.4	51.9	47.7	33.7	31.1	15.9	12.8	9.7	10.4	10.8	10.1
14:00 - 15:00	25.4	42.0	52.2	47.8	34.2	30.5	14.7	12.9	9.6	10.4	10.8	10.1
15:00 - 16:00	25.4	40.9	52.3	47.7	33.8	30.6	14.6	13.4	9.8	10.4	10.8	10.1
16:00 - 17:00	25.4	44.0	50.9	48.0	33.7	30.5	14.7	13.7	9.8	10.4	10.8	10.1
17:00 - 18:00	25.4	43.5	49.9	47.3	33.7	30.5	15.2	14.4	10.7	10.5	10.8	10.1
18:00 - 19:00	25.0	43.8	49.1	47.6	33.2	29.8	14.6	13.7	9.9	10.4	10.8	10.0
19:00 - 20:00	24.4	55.9	47.8	45.0	30.3	28.7	12.9	15.8	14.6	12.7	12.3	10.4
20:00 - 21:00	21.7	37.0	45.3	43.1	29.1	28.3	11.5	11.3	9.1	10.1	10.8	10.1
21:00 - 22:00	20.8	36.7	43.9	41.3	28.5	24.7	10.0	10.4	8.8	10.1	10.8	10.1
22:00 - 23:00	20.7	40.2	43.1	40.7	27.9	25.0	10.6	10.1	8.8	10.1	10.8	10.1

NIGHT TIME NOISE LEVELS 23:00 - 07:00 15 MINUTE SAMPLES			Octave Band Centre Frequency (Hz)									
Date / Time	LAeq	LAmaz	31.5	63	125	250	500	1.0 k	2.0 k	4.0 k	8.0 k	16.0 k
23:00 - 23:15	19.2	32.5	41.1	38.7	26.2	22.4	8.7	9.5	8.6	10.0	10.8	10.1
23:15 - 23:30	16.6	27.0	40.3	38.3	23.1	20.5	7.7	9.1	8.6	10.0	10.8	10.1
23:30 - 23:45	18.5	27.7	38.8	38.5	22.0	20.8	7.7	8.7	8.5	10.0	10.8	10.1
23:45 - 00:00	18.4	31.6	38.0	37.3	23.9	20.5	7.2	8.6	8.6	10.0	10.8	10.1
00:00 - 00:15	25.3	52.8	40.4	36.4	33.8	33.2	11.2	8.8	8.4	10.0	10.8	10.1
00:15 - 00:30	18.0	32.3	35.7	35.0	21.6	20.4	7.3	8.3	8.5	10.0	10.8	10.1
00:30 - 00:45	18.3	37.4	33.1	36.0	24.6	18.9	6.9	7.6	6.2	10.0	10.8	10.1
00:45 - 01:00	17.2	31.3	33.2	34.3	20.9	16.5	5.8	7.0	6.2	10.0	10.8	10.1
01:00 - 01:15	17.2	32.2	32.1	35.5	19.6	17.4	6.1	6.5	8.1	9.9	10.8	10.1
01:15 - 01:30	16.9	27.1	33.8	31.4	17.6	17.1	6.3	6.9	8.2	10.0	10.8	10.1
01:30 - 01:45	17.2	28.0	35.6	34.6	18.1	17.6	6.1	7.3	8.2	10.0	10.8	10.1
01:45 - 02:00	17.0	38.5	35.0	32.0	17.8	16.2	6.9	7.1	6.2	10.0	10.8	10.1
02:00 - 02:15	16.9	24.0	37.9	31.8	17.3	16.5	5.7	7.0	8.1	9.9	10.8	10.1
02:15 - 02:30	18.7	34.0	37.6	42.8	20.9	17.2	6.1	6.7	8.1	9.9	10.8	10.1
02:30 - 02:45	16.9	33.2	33.1	33.6	19.6	16.1	5.7	6.6	8.1	10.0	10.8	10.1
02:45 - 03:00	17.3	27.8	37.3	33.6	20.5	17.5	6.8	7.0	8.2	9.9	10.8	10.1
03:00 - 03:15	16.7	27.7	33.6	31.2	17.6	15.9	5.7	6.9	8.2	9.9	10.8	10.1
03:15 - 03:30	17.0	32.2	36.1	31.8	18.6	17.8	6.1	6.6	8.1	9.9	10.8	10.1
03:30 - 03:45	17.0	31.6	32.2	34.3	19.1	15.9	5.8	6.4	8.1	9.9	10.8	10.1
03:45 - 04:00	17.3	30.9	40.3	34.6	20.9	17.5	7.5	6.5	8.1	9.9	10.8	10.1
04:00 - 04:15	17.0	30.9	37.6	35.1	18.3	15.8	6.3	6.5	8.1	10.0	10.8	10.1
04:15 - 04:30	16.6	27.2	35.5	31.8	17.0	14.7	5.3	6.3	8.1	9.9	10.8	10.1
04:30 - 04:45	17.0	27.4	41.4	33.5	17.4	16.5	6.3	6.7	8.1	10.0	10.8	10.1
04:45 - 05:00	18.6	39.1	39.1	34.9	28.1	21.9	6.2	7.1	8.2	10.0	10.8	10.1
05:00 - 05:15	16.7	24.7	34.5	32.1	16.2	16.0	6.0	6.5	8.1	9.9	10.8	10.1
05:15 - 05:30	17.5	33.2	38.2	34.2	24.1	18.4	6.2	6.9	8.2	10.0	10.9	10.1
05:30 - 05:45	17.6	26.7	37.9	33.5	19.8	19.1	7.5	7.8	8.3	10.0	10.8	10.1
05:45 - 06:00	18.4	28.8	39.3	36.7	23.7	20.8	8.4	8.3	8.5	10.0	10.8	10.1
06:00 - 06:15	18.6	29.8	41.1	39.1	23.5	20.7	7.7	8.3	8.3	10.0	10.8	10.1
06:15 - 06:30	18.6	37.2	41.5	36.1	24.2	21.6	8.1	8.3	8.4	10.0	10.8	10.1
06:30 - 06:45	19.6	33.7	43.8	38.3	26.4	22.9	9.1	9.8	8.8	10.1	10.8	10.1
06:45 - 07:00	21.4	37.7	45.0	41.5	29.6	26.3	11.6	10.4	9.0	10.1	10.8	10.1



4.3 Plot 34, 23rd – 24th September 2017

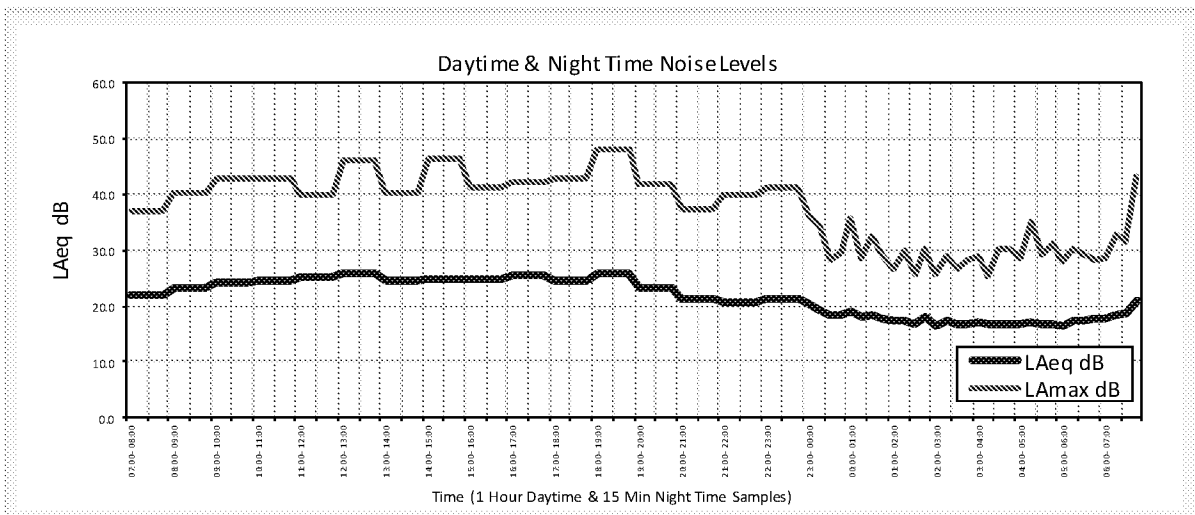
Date / Time	LAeq	LAmaz	31.5	63	125	250	500	1.0k	2.0k	4.0k	8.0k	16.0k
DAYTIME 07:00 - 23:00 LAeq 16 HOUR & Corresponding LAmaz 16 HOUR	24.1	42.9	49.2	45.5	32.5	29.6	13.4	12.6	9.7	10.3	10.8	10.1
NIGHT TIME 23:00 - 07:00 LAeq 8 HOUR & Corresponding LAmaz 8 HOUR	17.9	32.5	37.7	34.8	22.5	19.7	7.1	8.1	8.3	10.0	10.8	10.1

DAYTIME NOISE LEVELS 07:00 - 23:00 1 HOUR SAMPLES

Date / Time	LAeq	LAmaz	31.5	63	125	250	500	1.0 k	2.0 k	4.0 k	8.0 k	16.0 k
07:00 - 08:00	21.8	36.9	47.0	42.6	29.5	26.5	11.5	11.5	9.2	10.2	10.8	10.1
08:00 - 09:00	23.3	40.2	49.7	44.7	30.8	27.9	12.9	13.0	10.3	10.7	10.8	10.1
09:00 - 10:00	24.3	42.9	49.3	46.1	32.4	29.5	14.8	12.8	9.9	10.5	10.8	10.1
10:00 - 11:00	24.5	42.9	50.0	46.5	32.8	29.9	13.8	12.7	9.6	10.3	10.8	10.1
11:00 - 12:00	25.2	39.9	51.2	47.9	33.6	30.3	14.3	12.7	9.9	10.2	10.8	10.1
12:00 - 13:00	25.9	45.9	51.2	47.5	34.0	32.1	14.7	12.8	10.3	10.3	10.8	10.1
13:00 - 14:00	24.6	40.3	50.8	46.7	32.6	29.6	13.4	13.2	11.4	10.4	10.8	10.1
14:00 - 15:00	24.9	46.4	51.6	46.9	33.8	29.9	14.2	12.5	9.5	10.3	10.8	10.1
15:00 - 16:00	24.8	41.3	50.9	46.4	33.1	30.5	14.6	12.7	9.5	10.3	10.8	10.1
16:00 - 17:00	25.5	42.2	50.9	46.8	34.2	31.3	14.6	13.3	10.1	10.3	10.8	10.1
17:00 - 18:00	24.6	42.9	48.7	45.8	33.5	29.8	13.5	13.4	9.6	10.2	10.8	10.1
18:00 - 19:00	25.8	48.0	47.3	45.3	34.6	32.7	14.0	13.0	9.5	10.2	10.8	10.1
19:00 - 20:00	23.4	41.7	46.3	43.4	31.0	29.2	13.2	12.8	9.4	10.2	10.8	10.0
20:00 - 21:00	21.2	37.2	43.4	40.7	28.5	26.1	10.7	11.8	9.1	10.1	10.8	10.1
21:00 - 22:00	20.6	40.0	41.5	39.1	28.8	25.1	10.1	10.9	8.9	10.0	10.8	10.1
22:00 - 23:00	21.2	41.3	42.5	40.1	29.3	25.5	10.7	11.0	8.9	10.1	10.8	10.1

NIGHT TIME NOISE LEVELS 23:00 - 07:00 15 MINUTE SAMPLES

Date / Time	LAeq	LAmaz	31.5	63	125	250	500	1.0 k	2.0 k	4.0 k	8.0 k	16.0 k
23:00 - 23:15	20.4	36.5	41.8	38.2	26.4	25.7	9.7	10.6	8.8	10.0	10.8	10.1
23:15 - 23:30	19.4	34.4	41.2	38.0	24.9	23.0	9.1	10.1	8.8	10.0	10.8	10.1
23:30 - 23:45	18.5	28.1	38.9	37.4	22.7	20.9	8.1	9.4	8.5	10.0	10.8	10.1
23:45 - 00:00	18.5	29.5	39.1	36.2	23.4	20.8	8.2	9.3	8.6	10.0	10.8	10.1
00:00 - 00:15	19.0	35.7	38.7	37.6	24.1	22.4	8.8	9.7	8.5	10.0	10.8	10.1
00:15 - 00:30	18.1	28.5	38.0	33.9	21.9	20.3	8.0	9.3	8.5	10.0	10.8	10.1
00:30 - 00:45	18.5	32.5	37.6	34.9	24.2	20.9	7.8	9.0	8.5	10.0	10.8	10.1
00:45 - 01:00	17.9	28.9	36.6	35.0	23.6	19.8	7.5	8.2	8.3	10.0	10.8	10.1
01:00 - 01:15	17.5	26.5	36.6	32.9	21.2	18.3	6.9	8.1	8.4	10.0	10.8	10.1
01:15 - 01:30	17.5	29.9	35.8	32.9	20.2	18.5	7.0	8.2	8.3	10.0	10.8	10.1
01:30 - 01:45	16.8	25.6	33.9	30.3	18.4	16.5	6.0	6.9	8.1	9.9	10.8	10.1
01:45 - 02:00	18.0	30.1	37.3	36.6	22.8	20.3	6.9	7.7	8.2	9.9	10.8	10.1
02:00 - 02:15	16.6	25.8	34.3	30.5	16.3	15.4	5.7	7.0	8.1	9.9	10.8	10.1
02:15 - 02:30	17.4	28.8	36.1	33.3	20.4	18.4	6.8	7.8	8.2	10.0	10.8	10.1
02:30 - 02:45	16.8	26.6	34.6	30.5	17.1	16.3	6.1	7.2	8.2	9.9	10.8	10.1
02:45 - 03:00	16.9	28.4	34.2	30.9	17.9	16.6	6.1	7.5	8.2	9.9	10.8	10.1
03:00 - 03:15	17.1	29.0	37.5	34.5	19.3	16.0	6.2	7.1	8.1	9.9	10.8	10.1
03:15 - 03:30	16.9	25.3	36.0	34.0	17.1	16.3	5.6	6.9	8.1	9.9	10.8	10.1
03:30 - 03:45	16.8	30.3	34.1	30.4	16.9	16.5	6.0	6.8	8.2	9.9	10.8	10.1
03:45 - 04:00	16.7	30.1	32.2	31.7	19.2	15.1	5.1	6.4	8.1	9.9	10.8	10.1
04:00 - 04:15	16.7	28.7	35.7	31.0	17.1	15.8	5.7	6.7	8.1	9.9	10.8	10.1
04:15 - 04:30	17.2	35.0	33.7	34.1	23.1	16.8	5.2	6.3	8.1	9.9	10.8	10.1
04:30 - 04:45	16.9	29.3	34.8	32.5	22.5	14.5	5.7	6.8	8.1	9.9	10.8	10.1
04:45 - 05:00	16.7	31.1	32.9	32.1	18.8	14.7	5.3	6.3	8.1	9.9	10.8	10.1
05:00 - 05:15	16.4	28.0	34.0	28.7	15.2	13.4	5.1	6.5	8.1	9.9	10.8	10.1
05:15 - 05:30	17.3	30.1	39.3	33.8	22.5	17.5	6.3	6.7	8.1	10.0	10.8	10.1
05:30 - 05:45	17.3	29.2	35.7	32.9	20.6	18.0	6.2	7.6	8.2	9.9	10.8	10.1
05:45 - 06:00	17.7	28.3	38.7	35.3	22.5	18.2	6.8	7.6	8.3	10.0	10.8	10.1
06:00 - 06:15	17.6	28.5	40.3	35.7	20.9	18.1	6.5	8.0	8.3	10.0	10.8	10.1
06:15 - 06:30	18.4	32.7	40.1	36.5	25.6	19.9	7.7	8.6	8.5	10.0	10.8	10.1
06:30 - 06:45	18.8	31.5	40.0	37.1	24.2	21.7	8.5	9.2	8.7	10.1	10.8	10.1
06:45 - 07:00	20.9	43.0	42.0	38.1	29.4	25.6	10.3	10.0	8.9	10.1	10.8	10.1

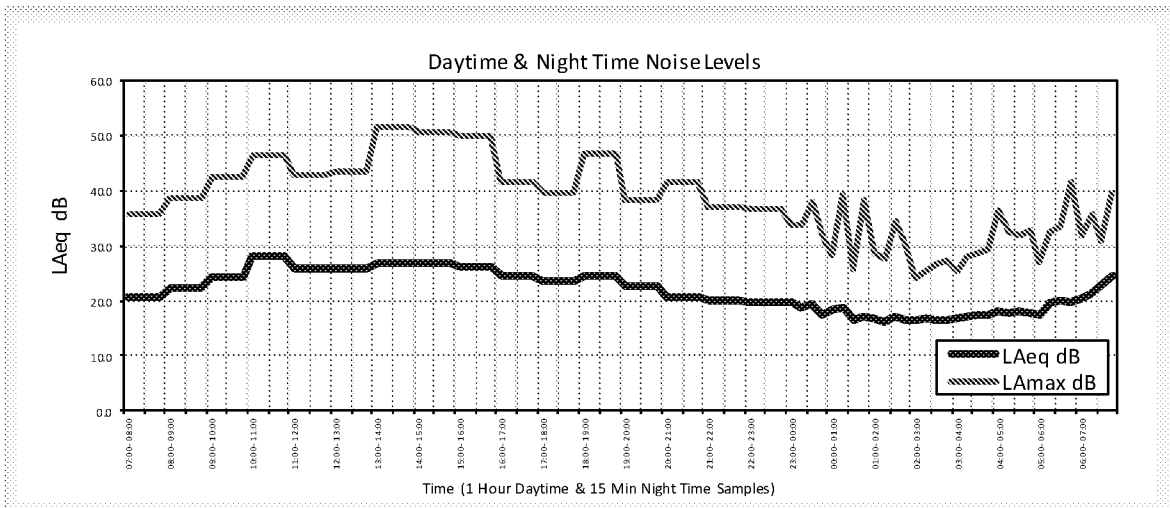


4.4 Plot 34, 24th – 25th September 2017

NOISE LEVEL SUMMARY ASSESSMENT		Octave Band Centre Frequency (Hz)										
Date / Time	L _{Aeq}	L _{Amax}	31.5	63	125	250	500	1.0k	2.0k	4.0k	8.0k	16.0k
DAYTIME 07:00 - 23:00 L_{Aeq} 16 HOUR & Corresponding L_{Amax} 16 HOUR	24.6	45.6	48.1	44.6	33.1	30.9	13.8	13.4	10.0	10.4	10.8	10.1
NIGHT TIME 23:00 - 07:00 L_{Aeq} 8 HOUR & Corresponding L_{Amax} 8 HOUR	18.8	34.1	38.5	36.4	23.7	21.5	8.9	8.9	9.1	10.5	10.8	10.1

DAYTIME NOISE LEVELS 07:00 - 23:00 1 HOUR SAMPLES		Octave Band Centre Frequency (Hz)										
Date / Time	L _{Aeq}	L _{Amax}	31.5	63	125	250	500	1.0 k	2.0 k	4.0 k	8.0 k	16.0 k
07:00 - 08:00	20.5	35.6	44.0	41.0	27.7	24.3	10.3	10.7	9.0	10.1	10.8	10.1
08:00 - 09:00	22.3	38.6	45.0	42.3	30.1	27.6	11.5	11.9	9.2	10.1	10.8	10.2
09:00 - 10:00	24.1	42.4	48.1	44.4	31.4	30.5	13.2	13.3	9.6	10.2	10.8	10.4
10:00 - 11:00	28.0	46.5	50.0	48.1	37.7	35.0	16.7	13.6	9.7	10.4	10.8	10.3
11:00 - 12:00	25.7	42.9	50.9	46.6	34.7	32.0	14.8	14.2	9.7	10.3	10.8	10.1
12:00 - 13:00	25.9	43.3	51.9	47.5	33.9	32.1	15.1	14.6	10.1	10.4	10.8	10.1
13:00 - 14:00	26.8	51.7	51.2	46.6	35.2	33.9	15.6	14.7	10.3	10.6	10.8	10.1
14:00 - 15:00	26.9	50.5	51.8	46.6	36.3	33.5	15.2	14.0	9.9	10.4	10.8	10.1
15:00 - 16:00	26.3	50.1	49.8	45.8	35.6	32.4	14.9	14.9	11.5	11.1	11.1	10.2
16:00 - 17:00	24.7	41.6	46.0	44.0	32.4	30.7	15.1	15.2	11.6	11.0	10.8	10.1
17:00 - 18:00	23.7	39.7	44.6	42.7	32.0	29.7	13.9	14.1	9.9	11.0	10.8	10.1
18:00 - 19:00	24.4	46.6	44.8	43.3	32.3	31.3	13.2	13.8	9.9	10.3	10.8	10.1
19:00 - 20:00	22.6	38.3	44.1	42.7	29.9	27.0	13.1	13.5	11.0	10.8	10.8	10.1
20:00 - 21:00	20.8	41.7	41.3	39.4	27.2	25.9	9.8	10.9	9.3	10.3	10.8	10.1
21:00 - 22:00	20.1	37.0	40.7	38.5	27.6	23.8	9.4	10.3	9.0	10.2	10.8	10.1
22:00 - 23:00	19.6	36.8	38.7	38.7	26.1	23.0	9.4	9.4	8.9	10.2	10.8	10.1

NIGHT TIME NOISE LEVELS 23:00 - 07:00 15 MINUTE SAMPLES		Octave Band Centre Frequency (Hz)										
Date / Time	L _{Aeq}	L _{Amax}	31.5	63	125	250	500	1.0 k	2.0 k	4.0 k	8.0 k	16.0 k
23:00 - 23:15	19.8	33.9	40.8	39.2	26.3	21.6	10.9	10.3	10.4	10.8	10.8	10.1
23:15 - 23:30	18.8	33.9	39.4	36.8	25.5	21.2	8.1	8.6	8.9	10.5	10.8	10.1
23:30 - 23:45	19.2	38.0	40.2	38.7	27.5	21.0	6.9	7.6	8.6	10.3	10.8	10.1
23:45 - 00:00	17.4	31.5	33.5	30.7	20.3	18.9	7.1	7.7	8.5	10.1	10.8	10.1
00:00 - 00:15	18.5	28.2	33.9	28.8	18.5	18.7	11.0	10.4	10.7	10.7	10.8	10.1
00:15 - 00:30	18.6	39.1	36.5	34.1	26.7	21.7	8.2	7.3	8.6	10.2	10.8	10.1
00:30 - 00:45	16.4	25.6	34.7	29.5	13.8	13.3	5.5	6.3	8.2	10.1	10.8	10.1
00:45 - 01:00	17.1	38.3	32.4	29.5	20.3	18.3	6.2	6.7	8.2	10.1	10.8	10.1
01:00 - 01:15	16.7	28.6	34.5	30.5	16.8	16.2	6.0	6.5	8.2	10.0	10.8	10.1
01:15 - 01:30	16.2	27.6	31.0	25.3	15.7	12.1	5.0	5.9	8.1	10.0	10.8	10.1
01:30 - 01:45	17.1	34.5	38.3	34.1	17.7	16.5	6.5	7.0	8.2	10.1	10.8	10.1
01:45 - 02:00	16.5	30.5	30.2	24.6	16.8	15.4	5.3	6.5	8.2	10.0	10.8	10.1
02:00 - 02:15	16.4	24.2	29.5	26.6	14.0	14.9	5.8	6.2	8.0	9.9	10.8	10.1
02:15 - 02:30	16.7	25.2	33.9	31.9	17.1	15.4	5.5	6.5	8.2	10.0	10.8	10.1
02:30 - 02:45	16.3	26.6	27.5	21.9	12.3	14.6	5.7	6.2	8.0	9.9	10.8	10.1
02:45 - 03:00	16.3	27.4	30.9	25.8	13.0	14.9	5.5	6.1	8.1	9.9	10.8	10.1
03:00 - 03:15	16.7	25.2	29.9	26.1	14.4	15.7	6.8	6.9	8.3	10.0	10.8	10.1
03:15 - 03:30	17.0	27.9	35.6	31.9	17.0	16.4	7.1	7.0	8.4	10.1	10.8	10.1
03:30 - 03:45	17.3	28.5	35.3	30.1	16.0	16.0	8.5	8.1	9.2	10.3	10.8	10.1
03:45 - 04:00	17.3	29.2	35.1	30.1	18.5	17.8	8.2	7.3	8.6	10.2	10.8	10.1
04:00 - 04:15	18.0	36.4	34.3	36.4	22.0	19.5	6.5	6.6	8.4	10.2	10.8	10.1
04:15 - 04:30	17.8	32.6	36.1	31.0	20.0	21.2	7.7	7.4	8.4	10.1	10.8	10.1
04:30 - 04:45	18.2	31.8	36.2	35.8	21.2	18.1	9.5	8.9	9.7	10.5	10.8	10.1
04:45 - 05:00	17.6	32.9	35.0	31.0	22.0	17.6	7.6	7.9	8.6	10.2	10.8	10.1
05:00 - 05:15	17.5	26.8	35.0	31.6	19.4	18.5	7.4	7.9	8.6	10.4	10.8	10.1
05:15 - 05:30	19.7	32.6	43.3	37.9	26.5	23.6	9.4	9.0	8.9	10.6	10.8	10.1
05:30 - 05:45	20.0	33.3	39.2	37.7	25.8	23.9	10.1	10.1	9.4	10.8	10.8	10.1
05:45 - 06:00	19.8	41.6	41.5	37.7	24.6	24.0	9.8	10.1	9.8	11.0	10.8	10.1
06:00 - 06:15	20.2	31.8	41.4	37.3	25.1	24.2	11.1	11.3	9.8	11.2	10.8	10.1
06:15 - 06:30	21.2	35.6	42.0	40.4	27.6	25.2	11.7	11.9	10.2	11.5	10.8	10.1
06:30 - 06:45	22.8	30.7	44.2	42.2	29.1	27.7	13.6	13.8	11.0	12.0	10.8	10.1
06:45 - 07:00	24.6	39.6	45.6	46.0	31.3	29.9	14.8	14.6	11.8	12.8	10.8	10.1

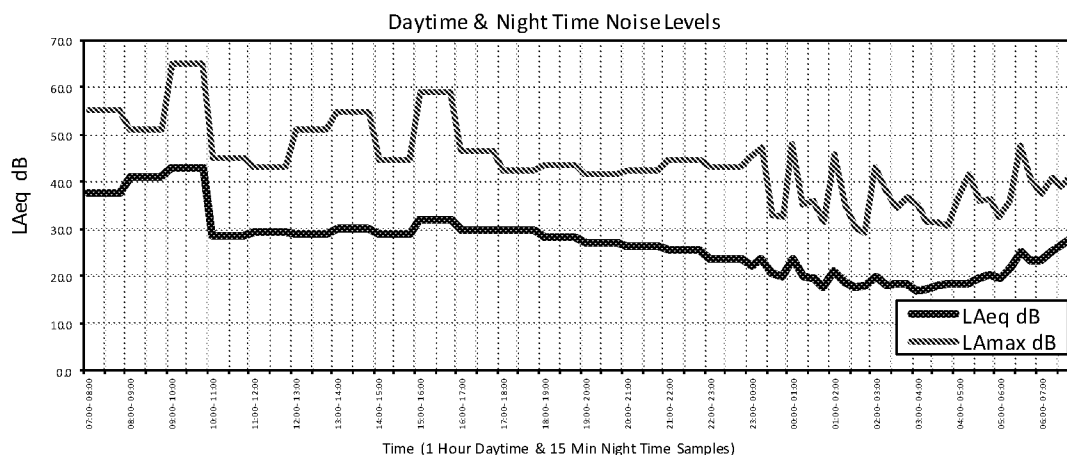


4.5 Plot 35, 21st – 22nd September 2017

NOISE LEVEL SUMMARY ASSESSMENT			Octave Band Centre Frequency (Hz)									
Date / Time	LAeq	LAmaz	31.5	63	125	250	500	1.0k	2.0k	4.0k	8.0k	16.0k
DAYTIME 07:00 - 23:00 LAeq 16 HOUR & Corresponding LAmaz 16 HOUR	34.9	55.0	48.3	49.1	37.6	39.2	34.2	24.5	22.1	20.9	11.4	11.0
NIGHT TIME 23:00 - 07:00 LAeq 8 HOUR & Corresponding LAmaz 8 HOUR	21.8	40.9	37.7	38.4	27.4	24.2	13.7	15.3	12.7	12.0	10.8	10.8

DAYTIME NOISE LEVELS 07:00 - 23:00 1 HOUR SAMPLES			Octave Band Centre Frequency (Hz)									
Date / Time	LAeq	LAmaz	31.5	63	125	250	500	1.0 k	2.0 k	4.0 k	8.0 k	16.0 k
07:00 - 08:00	37.9	55.4	50.9	51.4	42.7	42.3	37.4	27.7	21.6	21.3	12.9	11.5
08:00 - 09:00	41.1	50.9	49.5	50.5	41.9	46.0	41.7	27.5	21.1	20.0	11.1	10.8
09:00 - 10:00	43.1	65.0	52.4	52.9	43.4	47.5	42.9	31.6	30.6	28.8	12.4	11.0
10:00 - 11:00	28.8	45.0	49.1	49.3	34.2	33.0	22.3	21.5	18.1	15.4	11.0	10.8
11:00 - 12:00	29.2	43.1	49.5	49.7	35.1	33.1	23.4	22.2	18.2	16.3	10.9	10.8
12:00 - 13:00	28.9	51.0	49.0	49.5	35.5	32.7	21.8	21.9	18.3	16.5	11.0	11.3
13:00 - 14:00	30.0	54.9	48.4	49.8	38.0	34.2	23.5	21.8	18.3	16.4	11.3	12.1
14:00 - 15:00	29.1	44.8	48.5	48.9	34.5	32.9	22.0	21.8	19.0	19.0	11.0	10.8
15:00 - 16:00	32.0	58.9	50.4	50.4	38.1	33.6	23.8	22.7	23.9	24.5	13.4	11.8
16:00 - 17:00	29.7	46.4	46.9	48.4	33.8	31.1	22.2	22.4	21.6	21.9	11.0	10.8
17:00 - 18:00	29.7	42.6	45.9	48.2	33.0	31.5	21.9	22.8	21.5	21.6	11.0	10.8
18:00 - 19:00	28.3	43.7	45.9	47.5	33.0	30.6	21.4	22.6	19.3	16.9	10.8	10.6
19:00 - 20:00	27.1	41.7	44.5	46.4	32.2	29.4	19.9	21.4	18.1	15.2	10.8	10.8
20:00 - 21:00	26.4	42.4	42.7	44.7	31.9	29.1	18.2	20.6	17.4	14.6	10.8	10.8
21:00 - 22:00	25.6	44.6	41.5	43.9	31.8	27.7	18.2	19.8	16.7	14.0	10.8	10.8
22:00 - 23:00	23.8	43.3	39.7	41.5	27.7	26.5	16.6	17.9	15.1	13.1	10.8	10.8

NIGHT TIME NOISE LEVELS 23:00 - 07:00 15 MINUTE SAMPLES			Octave Band Centre Frequency (Hz)									
Date / Time	LAeq	LAmaz	31.5	63	125	250	500	1.0 k	2.0 k	4.0 k	8.0 k	16.0 k
23:00 - 23:15	22.2	45.6	37.2	40.1	24.6	22.9	13.4	15.8	14.6	13.2	10.8	10.8
23:15 - 23:30	23.8	47.3	35.5	39.0	31.3	29.5	15.6	15.1	14.6	12.5	10.8	10.8
23:30 - 23:45	20.6	33.0	34.4	35.7	23.0	20.5	11.7	14.5	12.9	12.1	10.8	10.8
23:45 - 00:00	19.8	32.6	32.9	34.2	21.6	20.5	10.8	13.8	11.0	11.5	10.8	10.8
00:00 - 00:15	23.9	48.1	35.5	36.8	31.0	28.7	17.0	15.5	13.8	12.8	10.8	10.8
00:15 - 00:30	19.9	35.4	35.2	33.9	21.5	19.7	10.8	13.9	11.9	11.7	10.9	10.8
00:30 - 00:45	19.7	36.1	33.6	32.8	21.9	20.5	11.1	13.0	11.4	11.8	10.8	10.8
00:45 - 01:00	17.8	31.6	31.0	30.0	21.6	16.2	6.9	8.7	9.0	11.0	10.8	10.8
01:00 - 01:15	21.2	45.9	32.6	36.0	29.7	22.6	11.1	12.7	12.2	11.9	10.8	10.8
01:15 - 01:30	18.9	35.1	33.9	34.2	19.7	18.9	9.6	12.0	10.4	11.4	10.8	10.8
01:30 - 01:45	17.8	30.5	32.2	30.1	17.8	16.6	7.8	10.0	9.5	11.1	10.8	10.8
01:45 - 02:00	18.0	29.2	30.6	33.2	17.7	16.3	7.9	10.0	9.9	11.2	10.8	10.8
02:00 - 02:15	20.1	43.2	31.5	31.3	24.0	26.0	12.4	10.6	9.2	11.0	10.8	10.8
02:15 - 02:30	18.0	38.3	39.2	35.6	18.4	16.1	8.3	10.1	9.1	11.0	10.8	10.8
02:30 - 02:45	18.5	34.3	30.0	32.1	24.1	19.1	9.4	10.5	8.5	10.8	10.8	10.8
02:45 - 03:00	18.5	36.8	28.9	31.7	25.8	17.4	8.3	10.3	9.6	11.1	10.8	10.8
03:00 - 03:15	17.1	35.1	30.0	29.2	15.3	14.5	6.3	9.2	8.4	10.8	10.8	10.8
03:15 - 03:30	17.2	31.4	33.0	29.1	15.5	14.8	6.3	9.0	8.7	10.9	10.8	10.8
03:30 - 03:45	18.0	31.3	31.5	33.0	17.7	15.6	8.1	10.6	9.8	11.2	10.8	10.8
03:45 - 04:00	18.5	30.6	32.3	35.6	18.1	17.0	8.5	12.0	9.7	11.1	10.8	10.8
04:00 - 04:15	18.4	36.7	33.1	36.0	22.7	15.5	7.9	10.7	9.6	11.2	10.8	10.8
04:15 - 04:30	18.6	41.7	33.2	36.2	18.7	17.3	9.0	10.6	10.5	11.4	10.8	10.8
04:30 - 04:45	19.4	36.1	36.1	34.2	21.8	20.7	10.6	12.6	10.7	11.3	10.8	10.8
04:45 - 05:00	20.2	36.3	37.3	35.4	23.4	20.6	13.1	13.6	11.8	11.7	10.8	10.8
05:00 - 05:15	19.7	32.7	36.6	37.7	21.0	19.5	10.6	13.4	11.3	11.5	10.8	10.8
05:15 - 05:30	21.7	35.9	43.4	36.8	26.7	24.6	13.5	15.8	12.3	11.8	10.8	10.8
05:30 - 05:45	25.4	47.6	39.1	39.5	35.9	28.4	15.3	17.3	13.7	12.2	10.8	10.8
05:45 - 06:00	23.5	40.7	41.0	40.8	28.5	25.7	16.1	17.7	14.5	12.7	10.8	10.8
06:00 - 06:15	23.5	37.6	41.0	39.9	28.3	25.5	16.2	17.8	14.6	12.9	10.8	10.8
06:15 - 06:30	25.3	41.0	42.0	41.8	31.8	27.6	18.7	19.5	16.0	13.4	10.8	10.8
06:30 - 06:45	26.7	39.1	43.2	44.1	31.4	29.9	19.6	21.4	17.4	14.1	10.8	10.8
06:45 - 07:00	28.4	41.7	45.0	48.3	33.2	31.3	21.1	22.9	19.1	15.3	10.8	10.8

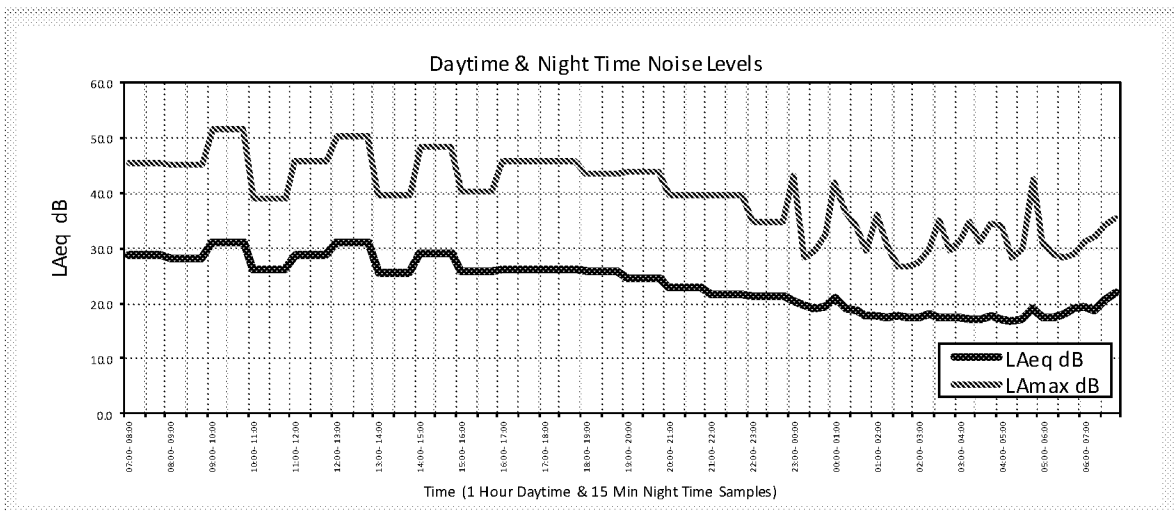


4.6 Plot 35, 22nd – 23rd September 2017

NOISE LEVEL SUMMARY ASSESSMENT			Octave Band Centre Frequency (Hz)									
Date / Time	L _{Aeq}	L _{Amax}	31.5	63	125	250	500	1.0k	2.0k	4.0k	8.0k	16.0k
DAYTIME 07:00 - 23:00 L_{Aeq} 16 HOUR & Corresponding L_{Amax} 16 HOUR	27.3	45.7	48.5	47.8	33.0	30.6	21.9	18.9	17.0	16.7	10.8	10.8
NIGHT TIME 23:00 - 07:00 L_{Aeq} 8 HOUR & Corresponding L_{Amax} 8 HOUR	18.6	35.0	37.1	36.7	22.1	19.9	7.6	10.3	9.2	11.0	10.8	10.8

DAYTIME NOISE LEVELS 07:00 - 23:00 1 HOUR SAMPLES												
Date / Time	LAeq	LAmax	Octave Band Centre Frequency (Hz)									
			31.5	63	125	250	500	1.0 k	2.0 k	4.0 k	8.0 k	16.0 k
07:00 - 08:00	28.7	45.4	46.6	47.9	34.9	32.4	21.8	22.4	18.6	15.1	10.8	10.8
08:00 - 09:00	28.0	45.0	49.9	49.5	34.7	32.4	18.7	20.4	16.9	14.7	11.0	10.8
09:00 - 10:00	30.9	51.7	51.1	49.6	35.3	33.1	23.0	21.6	22.3	24.3	11.0	10.9
10:00 - 11:00	26.1	39.0	49.8	48.3	32.8	30.8	16.3	18.0	14.0	12.5	10.8	10.8
11:00 - 12:00	28.7	45.7	49.8	49.0	34.1	31.2	20.2	19.4	20.3	20.3	10.9	10.8
12:00 - 13:00	31.0	50.2	50.4	49.7	34.4	33.9	31.6	19.9	16.8	16.0	10.9	10.8
13:00 - 14:00	25.6	39.4	50.5	48.1	32.4	29.7	16.4	17.2	13.0	12.3	10.8	10.8
14:00 - 15:00	29.1	48.2	49.7	48.0	33.7	30.7	21.5	20.4	22.0	20.8	11.0	10.8
15:00 - 16:00	25.8	40.1	49.3	48.3	33.0	29.7	15.9	17.7	13.3	12.3	10.8	10.8
16:00 - 17:00	26.3	45.6	48.7	48.6	33.7	30.5	16.4	18.1	13.7	12.3	10.8	10.8
17:00 - 18:00	26.1	45.6	47.7	47.8	32.7	30.0	16.5	19.0	15.0	12.5	10.8	10.8
18:00 - 19:00	25.7	43.4	46.9	48.0	33.1	29.5	16.0	17.9	13.6	12.2	10.8	10.8
19:00 - 20:00	24.6	43.9	45.6	45.7	30.7	29.0	14.3	17.3	13.5	12.1	10.8	10.8
20:00 - 21:00	22.8	39.4	43.3	43.7	28.8	26.3	12.8	16.5	12.0	11.6	10.8	10.8
21:00 - 22:00	21.7	39.7	41.3	42.0	28.1	24.9	11.2	14.2	11.2	11.4	10.8	10.8
22:00 - 23:00	21.2	34.6	41.2	41.1	27.1	24.0	11.6	13.8	11.1	11.4	10.8	10.8

NIGHT TIME NOISE LEVELS 23:00 - 07:00 15 MINUTE SAMPLES												
Date / Time	LAeq	L _A max	Octave Band Centre Frequency (Hz)									
			31.5	63	125	250	500	1.0 k	2.0 k	4.0 k	8.0 k	16.0 k
23:00 - 23:15	20.3	43.0	38.5	39.5	24.7	22.5	9.4	13.1	11.2	11.7	10.8	10.8
23:15 - 23:30	19.7	28.4	37.8	38.2	22.7	21.3	9.0	12.8	10.3	11.2	10.8	10.8
23:30 - 23:45	19.1	29.4	36.8	37.6	21.1	20.4	8.2	11.9	9.9	11.1	10.8	10.8
23:45 - 00:00	19.3	32.4	39.2	37.4	23.4	20.3	7.8	11.8	10.3	11.2	10.8	10.8
00:00 - 00:15	21.0	42.0	37.0	37.1	26.3	26.5	12.8	11.9	9.7	11.1	10.8	10.8
00:15 - 00:30	19.1	36.6	34.6	36.1	21.7	21.7	7.8	11.4	9.8	11.2	10.8	10.8
00:30 - 00:45	18.6	34.0	32.1	35.8	23.9	18.5	6.7	10.4	8.9	10.9	10.8	10.8
00:45 - 01:00	17.6	29.5	32.1	34.7	20.8	15.8	5.5	8.9	8.6	10.9	10.8	10.8
01:00 - 01:15	17.6	36.0	32.2	37.4	19.4	16.6	5.5	8.0	8.2	10.8	10.8	10.8
01:15 - 01:30	17.3	30.2	32.3	32.1	16.9	16.5	5.7	8.6	8.6	10.9	10.8	10.8
01:30 - 01:45	17.6	26.5	33.7	35.7	17.3	17.3	5.8	9.2	8.5	10.9	10.8	10.8
01:45 - 02:00	17.3	26.7	34.2	32.2	16.7	15.5	5.7	9.0	8.5	10.9	10.8	10.8
02:00 - 02:15	17.3	27.3	35.9	33.3	17.7	16.1	5.3	8.8	8.3	10.9	10.8	10.8
02:15 - 02:30	18.0	29.6	36.3	40.7	19.4	16.1	4.9	8.1	8.3	10.8	10.8	10.8
02:30 - 02:45	17.3	35.2	33.3	34.6	20.0	15.4	5.3	7.9	8.5	10.9	10.8	10.8
02:45 - 03:00	17.4	29.6	33.7	32.7	19.8	16.7	6.0	8.7	8.4	10.8	10.8	10.8
03:00 - 03:15	17.5	31.4	36.3	34.3	17.6	16.1	6.0	9.2	8.6	10.9	10.8	10.8
03:15 - 03:30	17.0	34.8	36.5	31.6	17.3	16.4	5.2	7.5	8.1	10.8	10.8	10.8
03:30 - 03:45	17.2	31.1	32.6	35.8	18.0	15.1	4.7	7.5	8.0	10.8	10.8	10.8
03:45 - 04:00	17.9	34.5	39.2	36.8	19.9	18.9	7.7	7.8	8.3	10.8	10.8	10.8
04:00 - 04:15	17.1	34.2	36.5	35.0	17.2	14.0	5.1	7.8	8.4	10.9	10.8	10.8
04:15 - 04:30	16.9	28.1	34.7	32.6	16.4	13.6	4.7	7.5	8.1	10.8	10.8	10.8
04:30 - 04:45	17.2	30.0	35.9	34.6	16.7	15.1	5.1	8.1	8.1	10.8	10.8	10.8
04:45 - 05:00	18.9	42.5	36.8	35.1	26.9	22.4	5.9	9.0	8.8	10.9	10.8	10.8
05:00 - 05:15	17.3	31.2	33.5	33.5	19.6	16.6	5.0	8.4	8.3	10.9	10.8	10.8
05:15 - 05:30	17.5	28.8	36.1	34.4	21.8	16.7	5.7	8.4	8.2	10.8	10.8	10.8
05:30 - 05:45	18.2	28.2	37.5	35.6	19.3	18.8	7.4	10.5	9.1	11.0	10.8	10.8
05:45 - 06:00	19.1	29.0	37.8	37.2	22.2	20.4	8.8	11.2	9.9	11.1	10.8	10.8
06:00 - 06:15	19.4	31.1	40.1	39.6	23.7	20.8	8.5	11.6	9.5	11.0	10.8	10.8
06:15 - 06:30	18.8	32.0	36.7	35.6	22.2	20.7	7.9	11.1	9.5	11.1	10.8	10.8
06:30 - 06:45	20.7	34.1	41.8	39.3	26.7	22.8	10.0	13.6	11.1	11.4	10.8	10.8
06:45 - 07:00	22.0	35.5	43.4	42.1	27.9	25.6	12.7	14.5	11.5	11.6	10.8	10.8

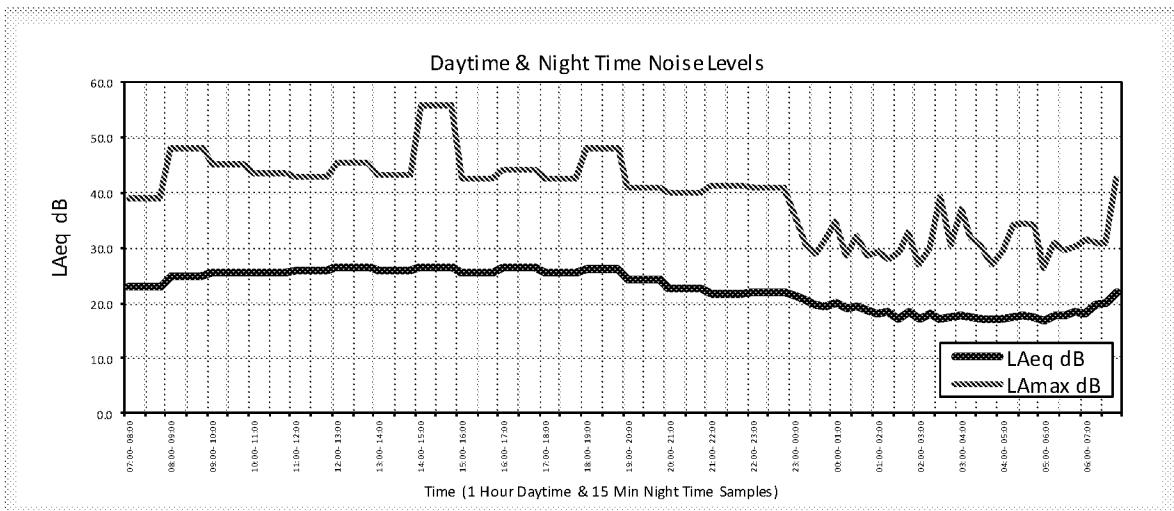


4.7 Plot 35, 23rd – 24th September 2017

NOISE LEVEL SUMMARY ASSESSMENT			Octave Band Centre Frequency (Hz)									
Date / Time	LAeq	LAmaz	31.5	63	125	250	500	1.0k	2.0k	4.0k	8.0k	16.0k
DAYTIME 07:00 - 23:00 LAeq 16 HOUR & Cor responding LAmaz 16 HOUR	25.1	46.7	46.8	46.4	32.2	29.2	15.2	17.4	13.6	12.2	10.8	10.8
NIGHT TIME 23:00 - 07:00 LAeq 8 HOUR & Cor responding LAmaz 8 HOUR	18.6	33.5	36.8	35.7	22.4	19.3	7.5	11.0	9.4	11.0	10.8	10.8

DAYTIME NOISE LEVELS 07:00 - 23:00 1 HOUR SAMPLES			Octave Band Centre Frequency (Hz)									
Date / Time	LAeq	LAmaz	31.5	63	125	250	500	1.0 k	2.0 k	4.0 k	8.0 k	16.0 k
07:00 - 08:00	23.0	38.9	44.2	43.4	29.3	26.5	12.9	15.8	12.4	11.8	10.8	10.8
08:00 - 09:00	24.8	48.1	46.7	45.4	30.4	28.0	14.6	18.1	14.9	13.4	10.8	10.8
09:00 - 10:00	25.4	45.0	47.1	47.1	31.9	29.6	15.9	17.5	14.2	12.8	10.8	10.8
10:00 - 11:00	25.5	43.6	48.0	47.7	32.3	29.4	15.6	17.6	13.4	12.5	10.8	10.8
11:00 - 12:00	26.0	42.9	48.8	48.8	33.3	29.5	16.2	17.7	13.9	12.1	10.8	10.8
12:00 - 13:00	26.5	45.4	49.1	48.5	33.8	31.1	16.7	17.8	14.4	12.6	10.8	10.8
13:00 - 14:00	25.7	43.0	48.7	47.7	32.2	29.5	15.4	18.4	15.4	12.4	10.8	10.8
14:00 - 15:00	26.6	55.7	48.6	48.0	35.2	30.3	17.4	16.2	15.3	13.2	10.8	10.8
15:00 - 16:00	25.4	42.5	48.2	47.5	32.4	29.8	15.7	17.5	12.9	12.0	10.8	10.8
16:00 - 17:00	26.3	44.2	47.8	47.8	34.4	30.7	16.3	18.1	14.1	12.4	10.8	10.8
17:00 - 18:00	25.4	42.5	46.7	46.8	32.9	29.2	15.2	18.2	13.3	12.0	10.8	10.8
18:00 - 19:00	26.2	48.0	45.3	46.1	34.1	32.1	15.5	17.7	13.2	12.0	10.8	10.8
19:00 - 20:00	24.3	41.0	44.5	44.4	30.5	28.8	14.6	17.4	12.8	11.8	10.8	10.8
20:00 - 21:00	22.4	39.7	41.7	41.6	28.3	26.2	12.1	16.0	12.1	11.5	10.8	10.8
21:00 - 22:00	21.7	41.0	39.6	40.8	27.7	24.6	11.4	15.0	11.5	11.4	10.8	10.8
22:00 - 23:00	22.1	41.0	41.0	40.7	28.4	25.8	12.0	14.9	11.6	11.5	10.8	10.8

NIGHT TIME NOISE LEVELS 23:00 - 07:00 15 MINUTE SAMPLES			Octave Band Centre Frequency (Hz)									
Date / Time	LAeq	LAmaz	31.5	63	125	250	500	1.0 k	2.0 k	4.0 k	8.0 k	16.0 k
23:00 - 23:15	21.3	35.9	37.9	38.9	27.1	24.7	10.7	14.3	11.2	11.3	10.8	10.8
23:15 - 23:30	20.5	30.8	43.2	39.4	24.0	22.2	10.2	13.8	11.0	11.3	10.8	10.8
23:30 - 23:45	19.7	29.0	37.0	38.1	22.5	21.2	8.9	13.1	10.2	11.1	10.8	10.8
23:45 - 00:00	19.5	31.8	37.8	37.3	22.6	20.5	9.0	12.7	10.4	11.2	10.8	10.8
00:00 - 00:15	20.0	34.7	37.9	38.8	23.1	22.4	9.7	13.4	10.3	11.1	10.8	10.8
00:15 - 00:30	19.0	28.5	36.6	35.2	21.1	20.0	8.2	12.4	10.0	11.0	10.8	10.8
00:30 - 00:45	19.5	32.2	38.3	36.0	23.9	20.9	8.7	12.6	10.2	11.1	10.8	10.8
00:45 - 01:00	18.6	28.5	37.3	36.3	22.7	19.4	7.2	11.0	9.1	10.9	10.8	10.8
01:00 - 01:15	18.2	29.2	37.2	33.3	20.1	17.6	7.0	10.7	9.6	11.0	10.8	10.8
01:15 - 01:30	18.3	28.0	36.7	34.4	20.0	18.3	7.1	11.2	9.3	11.0	10.8	10.8
01:30 - 01:45	17.2	29.1	34.0	30.5	17.1	15.7	5.5	9.0	8.4	10.8	10.8	10.8
01:45 - 02:00	18.5	32.9	37.3	37.9	21.9	20.2	6.9	10.0	8.7	10.9	10.8	10.8
02:00 - 02:15	17.2	27.0	33.4	31.6	16.2	15.5	5.3	8.8	8.4	10.8	10.8	10.8
02:15 - 02:30	18.0	29.8	34.4	34.0	20.3	18.3	6.7	10.3	8.9	10.9	10.8	10.8
02:30 - 02:45	17.2	39.3	32.3	30.3	15.6	14.9	5.2	9.0	9.0	11.0	10.8	10.8
02:45 - 03:00	17.4	30.5	32.5	31.2	17.2	16.0	6.1	9.8	8.5	10.8	10.8	10.8
03:00 - 03:15	17.8	37.1	36.3	35.5	19.8	15.7	6.4	9.5	8.9	11.0	10.8	10.8
03:15 - 03:30	17.5	31.9	34.0	35.4	17.5	16.2	5.4	9.0	8.5	10.8	10.8	10.8
03:30 - 03:45	17.2	30.3	32.4	32.0	16.5	15.9	5.3	8.3	8.5	10.8	10.8	10.8
03:45 - 04:00	17.0	27.1	31.3	31.0	17.7	14.6	4.9	7.9	8.2	10.8	10.8	10.8
04:00 - 04:15	17.1	29.3	34.2	32.9	17.0	15.1	4.9	8.0	8.2	10.8	10.8	10.8
04:15 - 04:30	17.5	34.2	30.2	30.2	23.7	16.1	4.5	7.6	8.2	10.8	10.8	10.8
04:30 - 04:45	17.8	34.3	32.8	35.0	25.0	15.6	5.8	8.1	8.5	10.8	10.8	10.8
04:45 - 05:00	17.3	34.1	32.8	33.8	18.9	15.4	4.8	8.0	8.6	11.0	10.8	10.8
05:00 - 05:15	16.7	26.3	31.1	30.0	14.3	12.2	4.4	7.6	8.3	10.8	10.8	10.8
05:15 - 05:30	17.7	30.7	36.8	34.0	22.3	16.8	6.0	8.6	8.5	10.9	10.8	10.8
05:30 - 05:45	17.7	29.5	34.8	33.4	21.5	17.2	6.0	9.3	8.4	10.9	10.8	10.8
05:45 - 06:00	18.4	30.3	37.3	35.2	20.8	18.0	7.1	10.8	9.5	11.1	10.8	10.8
06:00 - 06:15	18.1	31.6	37.3	36.5	19.3	17.2	6.7	10.4	9.2	11.0	10.8	10.8
06:15 - 06:30	19.6	30.9	38.8	37.6	24.8	19.9	9.1	12.5	10.5	11.3	10.8	10.8
06:30 - 06:45	20.0	31.0	39.6	38.2	24.0	21.8	9.6	13.0	10.8	11.3	10.8	10.8
06:45 - 07:00	21.9	42.5	40.4	39.7	30.1	24.7	11.7	14.0	11.6	11.5	10.8	10.8

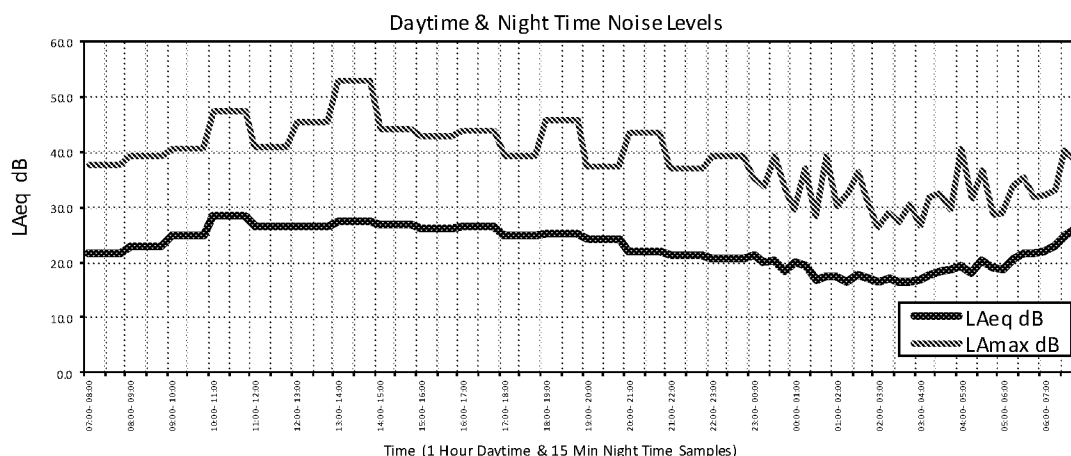


4.8 Plot 35, 24th – 25th September 2017

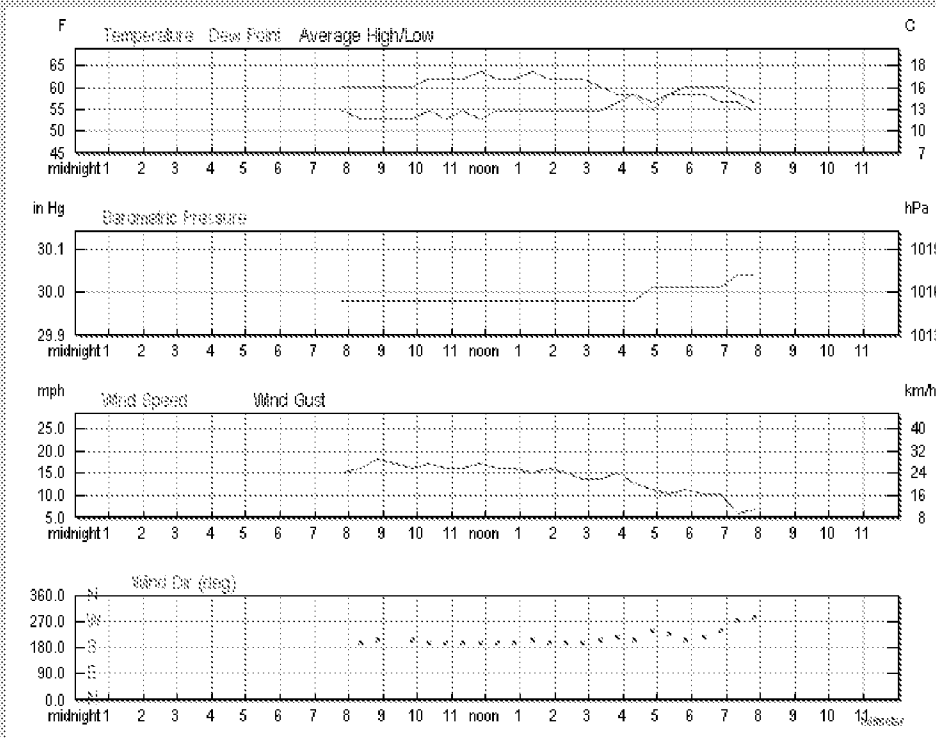
NOISE LEVEL SUMMARY ASSESSMENT		Octave Band Centre Frequency (Hz)										
Date / Time	LAeq	LAmaz	31.5	63	125	250	500	1.0k	2.0k	4.0k	8.0k	16.0k
DAYTIME 07:00 - 23:00 LAeq 16 HOUR & Corr responding LAmaz 16 HOUR	25.3	44.7	45.9	46.0	32.6	29.7	15.4	17.9	13.9	12.5	10.8	10.8
NIGHT TIME 23:00 - 07:00 LAeq 8 HOUR & Corr responding LAmaz 8 HOUR	20.1	34.7	37.5	37.7	23.3	20.5	9.9	11.9	11.9	12.9	10.8	10.8

DAYTIME NOISE LEVELS 07:00 - 23:00 1 HOUR SAMPLES		Octave Band Centre Frequency (Hz)										
Date / Time	LAeq	LAmaz	31.5	63	125	250	500	1.0 k	2.0 k	4.0 k	8.0 k	16.0 k
07:00 - 08:00	21.6	37.7	42.3	42.1	26.3	23.5	11.7	14.8	11.9	11.6	10.8	10.8
08:00 - 09:00	23.1	39.3	43.7	43.1	30.0	26.0	13.0	16.4	12.3	11.7	10.8	10.8
09:00 - 10:00	24.9	40.6	46.1	46.3	30.9	29.3	14.7	17.9	13.0	11.8	10.8	10.8
10:00 - 11:00	28.5	47.3	48.1	49.8	37.6	34.2	18.5	18.5	13.7	12.2	10.8	10.8
11:00 - 12:00	26.4	40.9	48.4	48.2	34.0	30.7	16.4	18.9	13.7	12.2	10.8	10.8
12:00 - 13:00	26.6	45.5	49.5	48.9	33.2	31.0	16.7	19.4	14.0	12.4	10.8	10.8
13:00 - 14:00	27.4	52.8	48.4	47.8	35.0	33.1	17.3	19.5	14.6	13.4	10.8	10.8
14:00 - 15:00	26.7	44.1	48.2	47.9	35.2	31.3	17.0	18.7	13.6	12.4	10.8	10.8
15:00 - 16:00	26.2	42.8	47.3	46.9	34.4	30.0	16.0	19.0	14.2	12.7	10.8	10.8
16:00 - 17:00	26.5	43.7	44.6	45.5	32.4	30.5	17.8	19.8	17.4	14.7	10.8	10.8
17:00 - 18:00	24.9	39.3	43.4	44.3	31.1	28.9	15.4	18.8	14.1	12.3	10.8	10.8
18:00 - 19:00	25.1	45.9	43.8	44.7	31.6	30.2	14.6	18.3	13.7	12.2	10.8	10.8
19:00 - 20:00	24.2	37.2	42.9	43.6	28.9	26.1	15.3	17.8	15.8	13.7	10.8	10.8
20:00 - 21:00	22.1	43.3	40.2	40.6	26.5	25.8	11.2	15.2	12.8	12.4	10.8	10.8
21:00 - 22:00	21.2	37.0	39.4	40.6	27.4	22.3	10.2	14.3	11.9	11.8	10.8	10.8
22:00 - 23:00	20.7	39.2	37.8	39.6	27.5	22.6	10.0	12.7	11.1	11.5	10.8	10.8

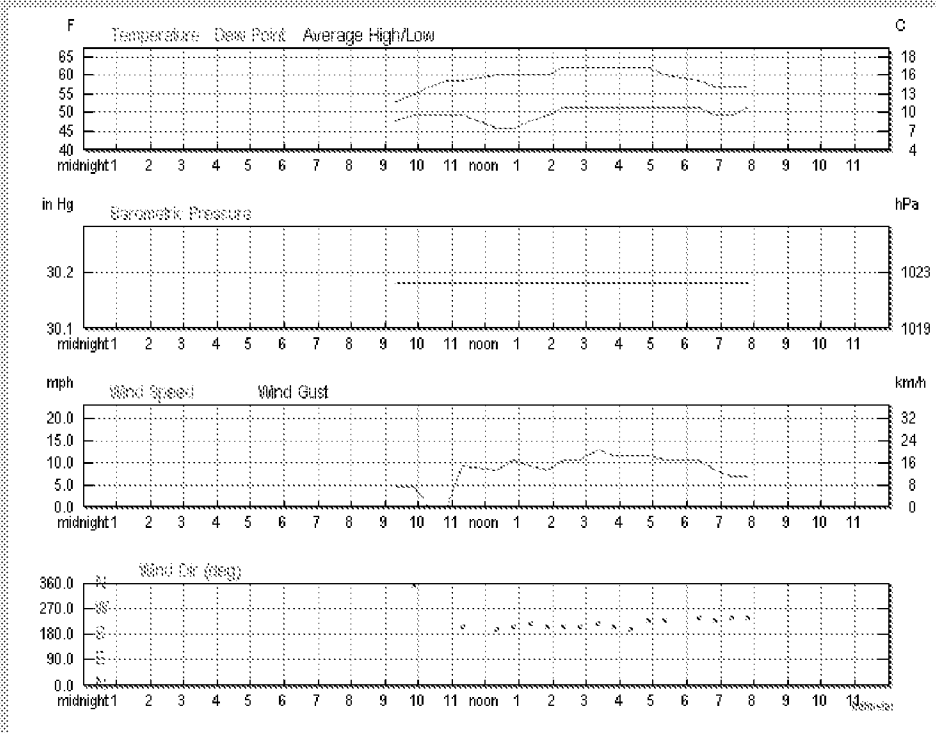
NIGHT TIME NOISE LEVELS 23:00 - 07:00 15 MINUTE SAMPLES		Octave Band Centre Frequency (Hz)										
Date / Time	LAeq	LAmaz	31.5	63	125	250	500	1.0 k	2.0 k	4.0 k	8.0 k	16.0 k
23:00 - 23:15	21.2	35.5	39.2	39.3	25.9	20.3	13.2	13.2	13.9	13.1	10.8	10.8
23:15 - 23:30	20.1	33.9	38.6	39.5	22.8	19.9	9.2	11.6	11.7	13.0	10.8	10.8
23:30 - 23:45	20.3	39.3	39.9	40.1	28.5	20.2	7.5	10.0	10.6	12.4	10.8	10.8
23:45 - 00:00	18.3	33.0	33.4	32.0	19.4	17.9	6.8	10.3	10.0	11.8	10.8	10.8
00:00 - 00:15	20.0	29.5	33.7	30.2	18.1	18.3	13.2	12.5	13.4	12.4	10.8	10.8
00:15 - 00:30	19.5	37.1	36.3	35.1	24.5	20.3	10.6	10.1	11.3	12.2	10.8	10.8
00:30 - 00:45	16.9	28.3	34.8	30.5	13.3	11.3	4.6	7.0	8.9	11.4	10.8	10.8
00:45 - 01:00	17.4	39.3	29.8	31.3	23.3	15.2	4.5	7.2	8.6	11.3	10.8	10.8
01:00 - 01:15	17.3	30.3	33.5	31.9	16.0	15.8	5.3	8.2	8.9	11.3	10.8	10.8
01:15 - 01:30	16.6	32.5	30.0	25.2	14.8	10.4	4.1	6.6	8.5	11.1	10.8	10.8
01:30 - 01:45	17.6	36.5	39.0	35.4	16.8	15.7	5.3	9.0	8.7	11.3	10.8	10.8
01:45 - 02:00	17.0	31.1	31.6	27.0	16.2	13.2	4.4	7.9	8.8	11.2	10.8	10.8
02:00 - 02:15	16.5	26.4	29.7	28.1	13.1	12.8	3.8	7.1	7.7	10.8	10.8	10.8
02:15 - 02:30	17.0	29.0	34.8	34.0	15.8	13.3	4.4	7.3	8.5	11.0	10.8	10.8
02:30 - 02:45	16.5	27.3	28.2	23.4	12.4	12.6	3.9	7.4	7.9	10.8	10.8	10.8
02:45 - 03:00	16.5	30.6	28.8	27.1	14.0	13.3	3.8	6.5	8.0	10.9	10.8	10.8
03:00 - 03:15	16.7	26.6	28.5	26.7	13.2	13.1	5.6	7.5	8.4	10.9	10.8	10.8
03:15 - 03:30	17.7	31.7	34.4	33.4	16.8	14.8	7.5	8.6	9.7	11.5	10.8	10.8
03:30 - 03:45	18.5	32.4	35.8	35.6	16.8	15.2	9.0	9.5	10.9	12.0	10.8	10.8
03:45 - 04:00	18.6	28.5	34.1	28.9	16.9	15.4	9.9	9.7	11.9	12.1	10.8	10.8
04:00 - 04:15	19.5	40.4	34.3	41.2	23.5	18.3	7.5	8.2	10.5	11.9	10.8	10.8
04:15 - 04:30	18.2	31.4	34.2	32.0	19.4	19.6	6.8	9.2	9.5	11.6	10.8	10.8
04:30 - 04:45	20.2	36.6	36.4	38.0	23.7	18.5	11.8	11.5	12.8	12.7	10.8	10.8
04:45 - 05:00	18.9	28.6	35.0	32.0	20.7	16.1	8.8	9.7	12.0	12.4	10.8	10.8
05:00 - 05:15	18.8	28.9	35.9	32.2	18.2	17.0	7.8	10.1	11.2	12.7	10.8	10.8
05:15 - 05:30	20.8	33.6	40.5	38.5	27.1	22.7	10.3	12.4	11.6	13.1	10.8	10.8
05:30 - 05:45	21.5	35.5	38.1	38.7	26.1	23.2	11.1	13.3	13.3	13.8	10.8	10.8
05:45 - 06:00	21.5	31.9	40.9	39.1	23.7	23.1	11.1	14.0	13.1	14.2	10.8	10.8
06:00 - 06:15	22.1	32.0	40.2	39.1	24.1	23.3	11.8	14.8	14.4	14.8	10.8	10.8
06:15 - 06:30	23.0	33.1	41.3	40.4	25.9	24.4	13.0	15.9	15.0	15.4	10.8	10.8
06:30 - 06:45	25.0	40.1	43.3	43.9	29.8	27.2	14.9	18.1	16.4	16.4	10.8	10.8
06:45 - 07:00	26.3	38.5	43.7	46.4	30.2	28.8	16.3	18.9	17.7	17.8	10.9	10.8



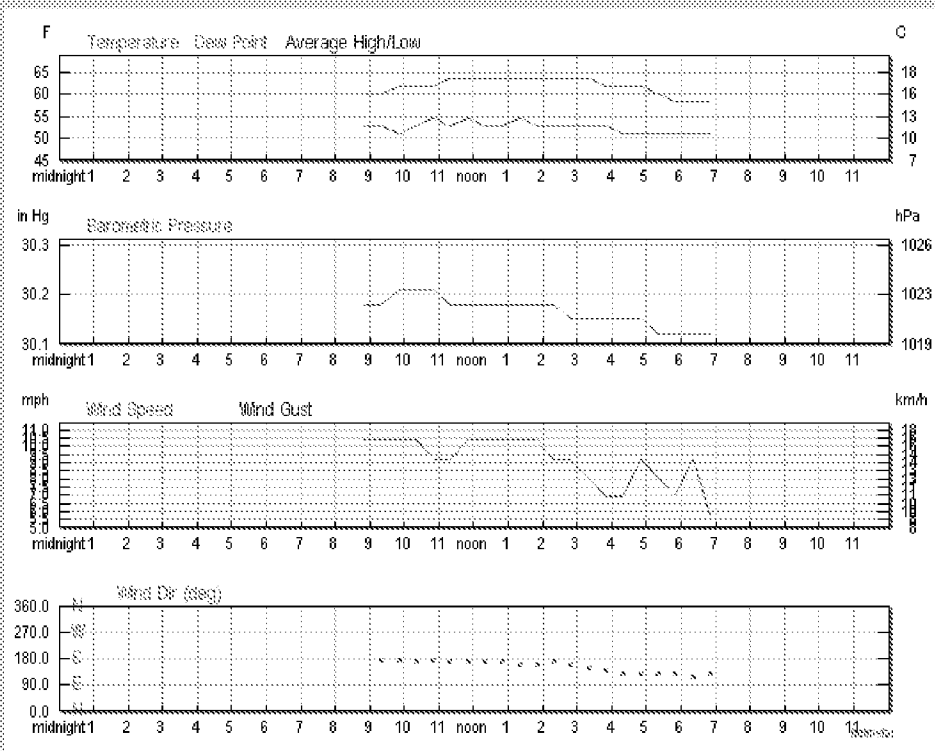
5 ENVIRONMENTAL CONDITIONS



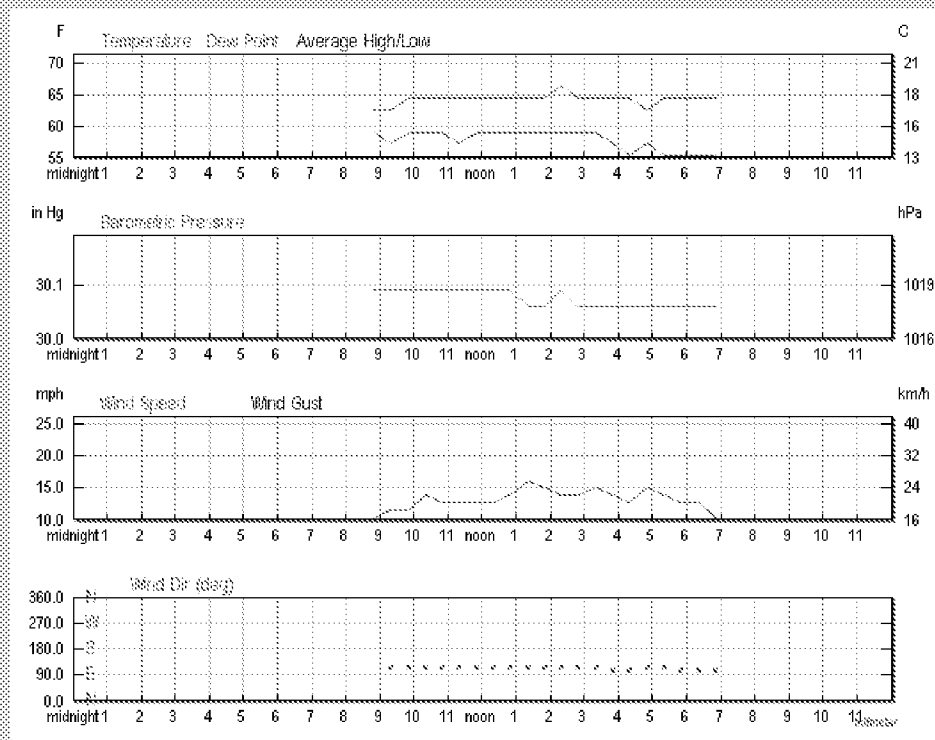
21st September 2017



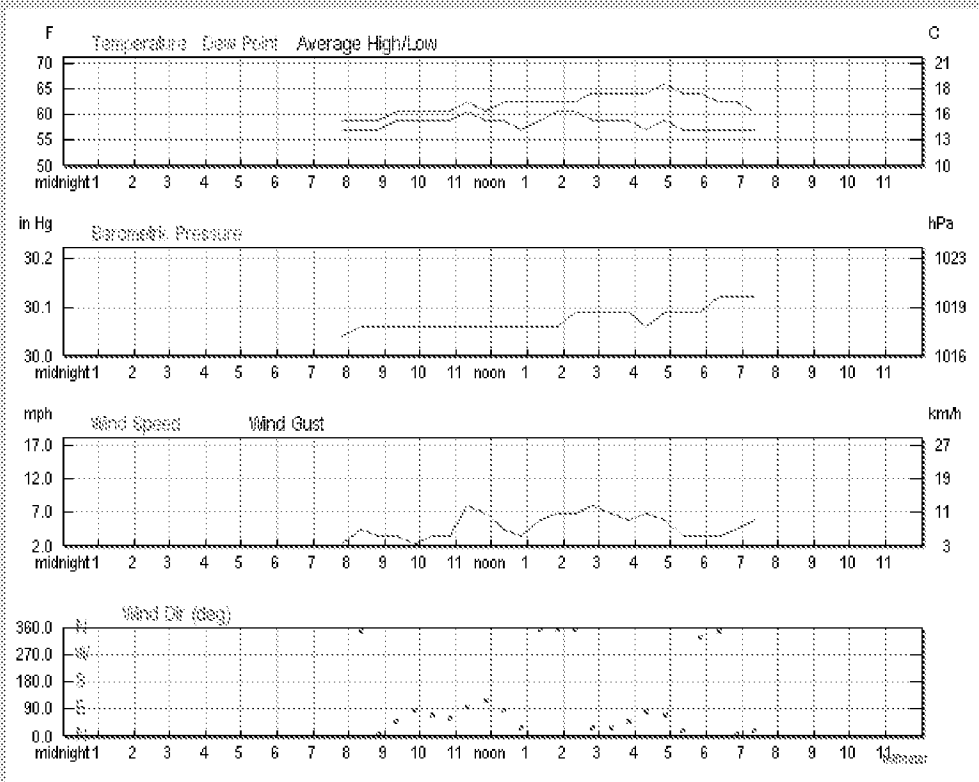
22nd September 2017



23rd September 2017



24th September 2017



25th September 2017

#END OF REPORT#