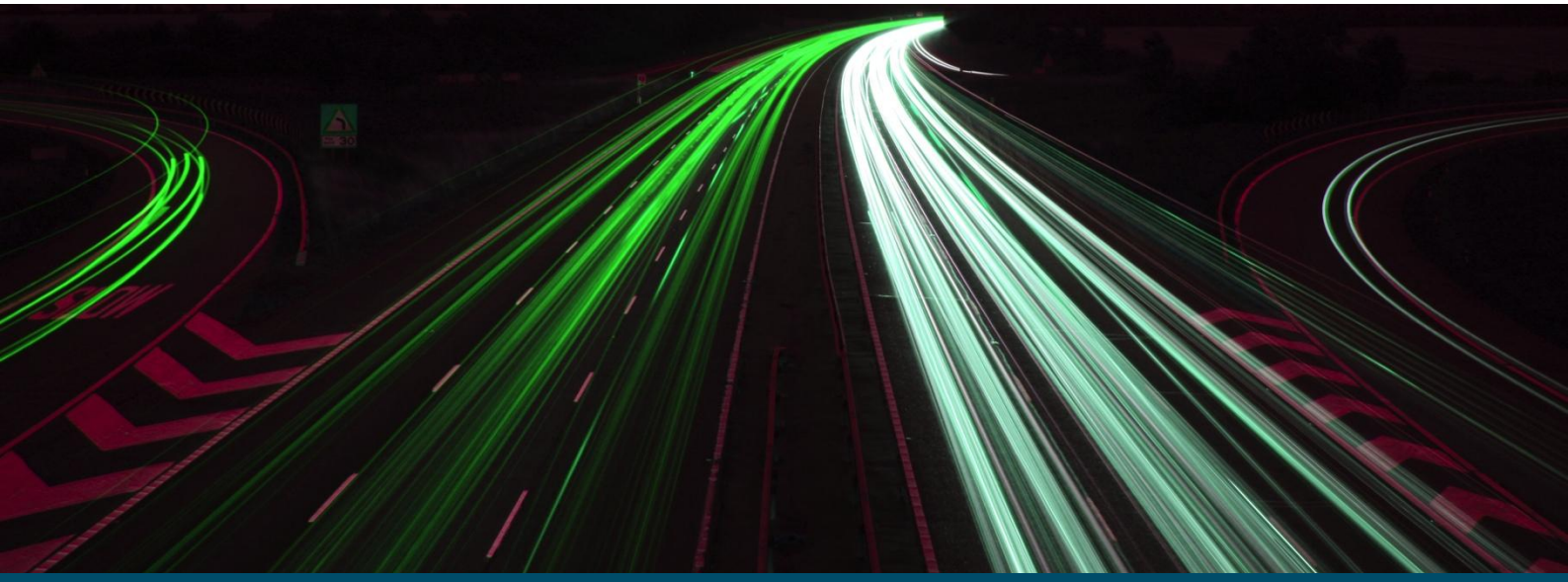


Baseline Noise Survey

Report: 3356-R1 – Rouge Lounge. 309 West End Lane, London, NW6 1RD.

Client: Sahid Ali

Northern Office: The Old Vicarage,
Barcroft Lane, Haywood DN6 0DS

Midlands Office: 22 Carlton Road,
Bilton, Rugby CV22 7PB

Table of Contents

Report Revisions	*Date*		
3356-R1	15/09/2015	Initial Report	
	Produced by:	*Checked by:*	*Authorised by:*
Name:	Steve Mckeever AMIOA	Steve Clow MIOA	Steve Clow MIOA

Steve Clow MIOA, is a member of The Institute of Acoustics and has achieved the IOA Diploma in Acoustics and Noise Control. Steve Clow has over 15 years experience in an acoustic consultant capacity working on many assessments involving planning and regulatory services.

Steve Mckeever AMIOA, is an associate member of The Institute of Acoustics and has achieved the IOA Diploma in Acoustics and Noise Control. Steve Mckeever has 10 years experience working in acoustics and 5 years in an acoustic consultant capacity.

Clover Acoustics Ltd - The Old Vicarage - Barcroft Lane - Askern - Doncaster - DN6 0DS
Tel: 01302 707 199 - Web: www.cloveracoustics.co.uk - Email: info@cloveracoustics.co.uk

1. Introduction

Clover Acoustics Ltd has been appointed by Apcar Smith Planning on behalf of Mr Sahid Ali of the Rouge Lounge to carry out a noise survey to examine the existing background level of external seating to the front of the Rouge Lounge, 309 West End Lane, London. It is understood that the trading hours for the external area are currently limited to 20:00 p.m. and that the client wishes to extend this to 23:00 p.m. The purpose of the survey is to identify the baseline noise levels of the existing environment and comment on the likely impact of the proposed extension to trading hours. The survey was carried out on Thursday 13th August 2015.

2. Scope

The scope for this assessment is based upon verbal instruction. This report will address:

a) A description of the sources of noise which the extension of hours on site is likely to produce i.e. speech as the dominant source.

b) An assessment of the impact which these sources have on noise sensitive premises in the locality.

c) All noise monitoring data and calculations, including any assumptions that have been made, shall be provided in format that is capable of verification.

d) All noise measurements shall be carried out in accordance with current British Standard 7445, Parts 1 to 3.

3. Site Description

Rouge Lounge is a shisha bar and café located on a busy street in London and the ambient noise climate reflects this. It is understood that the external seating area does not feature amplified music and is provided for customers for drinks and smoking. Contextually there are external seating areas adjacent in the form of a public house and a restaurant and it is understood that these businesses operate until 23:00 externally. The nearest receiver is known to be the 1st floor apartment directly above the café bar.

Subjectively the background noise climate at this location is high due to road traffic noise from the B510 and a variety of bar and restaurant businesses in operation in the area, predominantly all with external seating to the front facade.

Figure 1 shows the site location

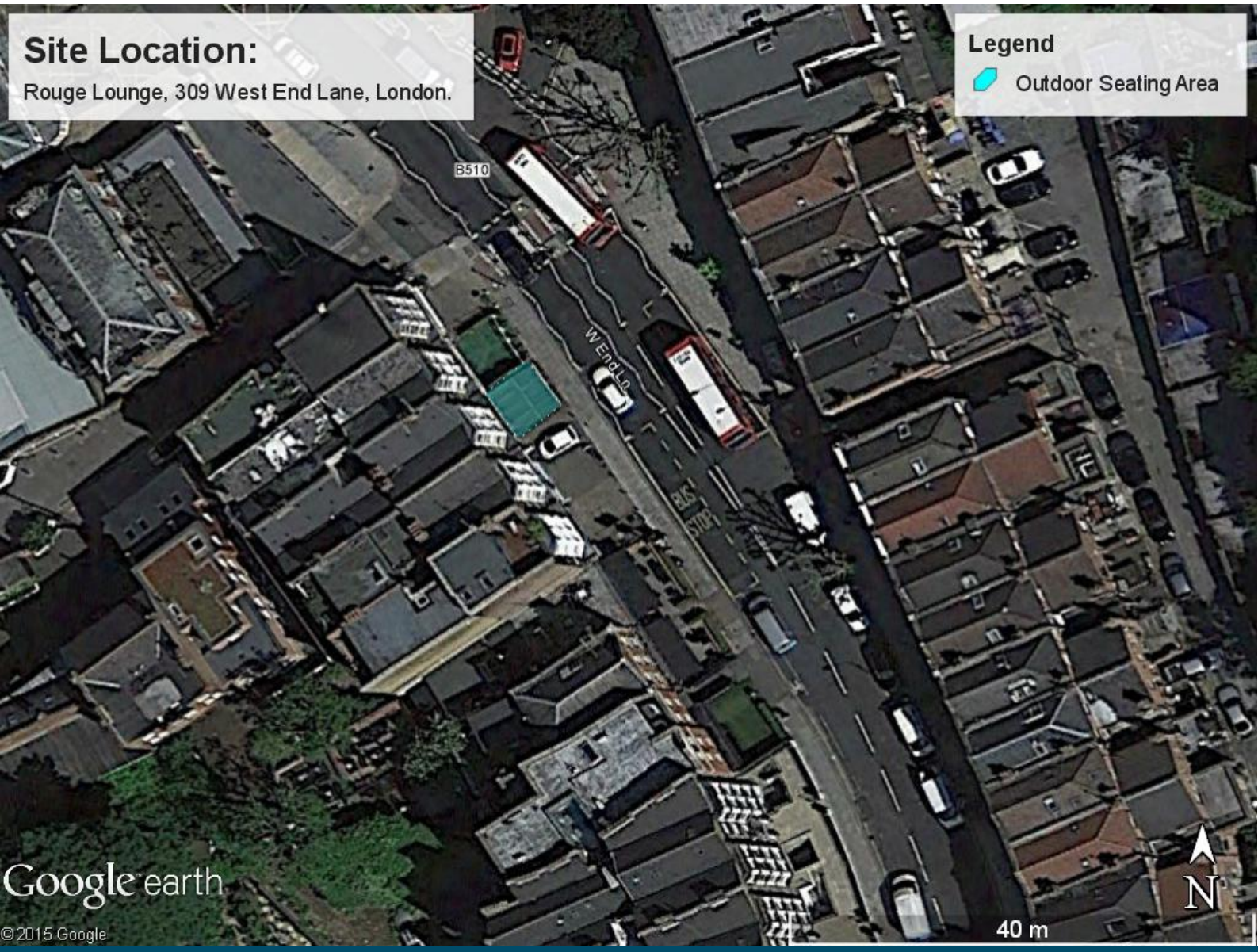


Figure 1 – Site Location

4. Survey Information

Measurement Instrumentation

The measurement instrumentation used on the survey was as follows:

Equipment	Manufacturer & Type	Serial Number	Calibration Certificate
Sound Level Meter	Norsonic 118	28952	08074
Acoustic Calibrator	Norsonic 1251	32856	U16611

The equipment was calibrated to comply with section 4.2 of BS7445:1-2003 before and after the surveys. The calibration was as follows:

Meter	Serial	Before		After	
Norsonic 118	28952	113.9	-26.3	113.9	-26.3

Measurements & Timescales

During the baseline survey 5-minute measurements were made over a 24 hour period. Measurements were taken with the business in operation and following the closure of the external seating area post 20:00 hours.

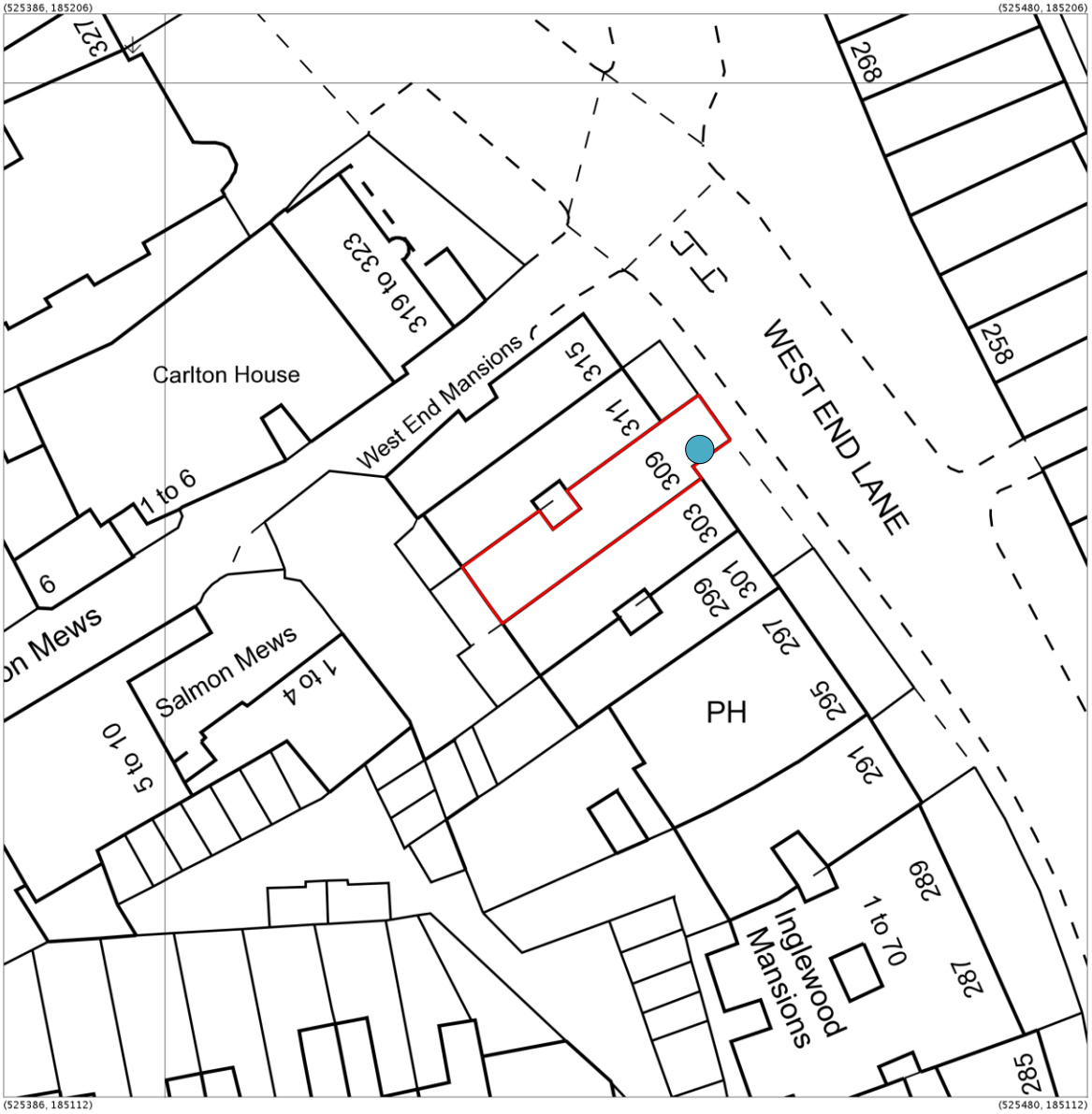
The following measurements are reported: $L_{Aeq,T}$, $L_{A90,T}$, $L_{Amax,T}$

The measurements and their interpretation shall be in accordance with BS 7445: Parts 1 and 2. All sound pressure levels are in dB (re 20µPa).

Meteorology

The monitoring location was largely shielded from wind by the surrounding buildings; the wind speed measurements recorded were below 5m/s^{-1}.

Temperature was recorded onsite at 19°C.



Produced 15 Sep 2015 from the Ordnance Survey MasterMap(Topography)Database and incorporating surveyed revision available at this date.

The representation of a road, track or path is no evidence of a right of way. The representation of features as lines is no evidence of a property boundary.

Version 1.0 Unversioned directory PNG

Metres
0 4 8 12 16 20
1:500

Rouge Lounge, 309, West E
NW6 1RD

Supplied by: Stanfords 15 Sep 2015
© Crown copyright and database rights 2015 OS 100035409
Reference: OI904783
Centre coordinates: 525433 185159

Monitoring Location

Figure 2 – Site Location Plan Showing Monitoring Location

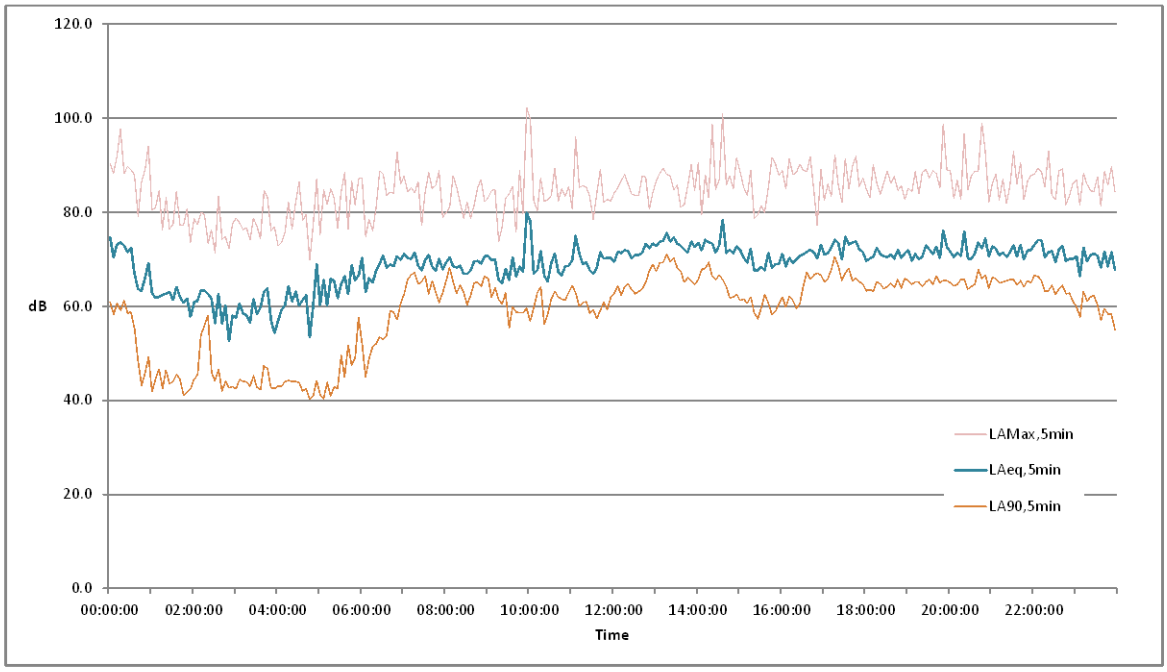
5. Survey Results

Baseline Noise Summary

Site: Position 1 - Front seating area 309 West End Lane, London
Table: 1 Summary — Start Date: 13/08/2015
Report: 3356-R1 — End Date: 13/08/2015

Hourly Summary

Hour End	LAeq,1Hour	Min LA90, 5min	LAMax,1hour
00:00	71.1	43.1	97.7
01:00	62.0	41.1	84.6
02:00	60.9	42.0	83.4
03:00	59.9	42.3	84.6
04:00	62.5	40.2	87.0
05:00	65.1	40.3	88.4
06:00	68.7	44.9	92.8
07:00	69.7	60.8	88.8
08:00	68.9	60.3	87.7
09:00	71.5	55.3	102.2
10:00	70.8	56.2	99.6
11:00	70.4	57.4	95.9
12:00	71.6	62.3	88.0
13:00	73.5	64.6	90.2
14:00	73.5	61.8	100.8
15:00	69.7	57.3	91.6
16:00	70.9	59.6	91.8
17:00	72.8	64.7	92.2
18:00	70.8	63.2	90.0
19:00	72.1	64.2	98.7
20:00	72.2	63.6	98.9
21:00	71.7	64.1	92.8
22:00	71.8	60.9	93.0
23:00	70.2	55.0	89.7



6. Discussion

Generally, noise may provoke a complaint when the level of the noise exceeds the local background noise condition. Noise levels at or below the local background condition are unlikely to provoke a complaint. It is this principle of a specific noise source not exceeding the ambient background that underpins the guidance contained in guidance BS4142:2014 Methods for rating and assessing industrial and commercial sound. Whilst we would not see the specific guidance as applicable in this instance the principle outlined above would offer some scope for comment on the results of the survey.

Noise levels in the surrounding area reflect the busy café bar type environment typical within London. It is noted above that there is a paucity of specific guidance in respect of the assessment of external seating areas and it therefore would seem reasonable to examine the typical noise levels apparent when the seating area is in operation as a specific source in comparison to the existing noise levels over the period for which an extension of opening hours is proposed, where the Rouge Lounge is currently not operational.

Table 1 summary above shows noise levels measured at the 1st floor boundary of the café. Noise levels during the operation of the external seating area for the evening period ranged between 71 & 72 dBLAeq1hour. This is broadly equal to the noise levels apparent at the same position when the operation of the external seating area has ceased post 20:00. Taken in this context, it is unlikely that the proposed extension of hours for the external seating area will have a significant adverse impact on the noise levels typically experienced at the nearest receiver and in the surrounding area.

7. Conclusion

A baseline noise survey has been carried out at the 1st floor boundary of the Rouge Lounge, 309 West End Grove, London, NW6 1RD to assess the current background levels with respect to the existing usage and proposed extension to the external seating area to the front façade of the business. The noise survey was conducted on Thursday 13th August 2015. The results indicate that noise levels at the boundary of the operation remain broadly the same during operational and non operation periods examined. It is therefore unlikely that the proposed extension will have an adverse impact on the current noise climate.

Steve Clow MIOA
Acoustic Consultant

8. Appendix

Glossary of Terms

Specific Noise Source

The noise source under investigation for assessing the likelihood of complaints.

Specific Noise Level, $L_{Aeq,T}$

The equivalent continuous A-weighted sound pressure level at the assessment position produced by the specific noise source over a given reference time interval.

Rating Level, $L_{A,T}$

The specific noise level plus any adjustment for the characteristic features of the noise.

Background Noise Level, $L_{A90,T}$

The A-weighted sound pressure level of the residual noise at the assessment position that is exceeded for 90 % of a given time interval, T.

Residual Noise

The ambient noise remaining at a given position in a given situation when the specific noise source is suppressed to a degree such that it does not contribute to the ambient noise.

Ambient Noise

Totally encompassing sound in a given situation at a given time usually composed of sound from many sources near and far.

Reference Time Interval, T

The specified interval over which an equivalent continuous A-weighted sound pressure level is determined.

$L_{Aeq,T}$

The A-weighted equivalent continuous sound level – the sound level of a notionally steady sound having the same energy as the fluctuating sound over a specified measurement period, T.

$L_{A10,T}$

The A-weighted sound level exceeded for 10% of the specified measurement period, T.

L_{Amax}

The highest short duration A-weighted sound level recorded during a noise event.

A-Weighting

The 'A' weighting is a correction term applied to the frequency range in order to approximate to the sensitivity of the human ear to noise. It is generally used to obtain an overall noise level from octave or third octave band frequencies.

Octave Band

A frequency band in which the upper limit of the band is twice the frequency of the lower limit.

One-third-octave Band

A frequency band in which the upper limit of the band is 1/3 times the frequency of the lower limit.

Data Tables

clover acoustics

Site: Position 1 - Front seating area 309 West End Lane, London
Table: 2 - Data
Report: 3356-R1
Start Date: 13/08/2015
End Date: 13/08/2015

Time	LAeq	LA90	LAMax	Time	LAeq	LA90	LAMax	Time	LAeq	LA90	LAMax	Time	LAeq	LA90	LAMax	Time	LAeq	LA90	LAMax
00:00	74.6	60.9	90.4	04:50	60.0	40.9	77.0	09:40	66.3	58.7	75.7	14:30	73.1	66.7	87.0	19:20	70.5	64.2	88.4
00:05	70.4	58.2	88.3	04:55	69.0	44.2	87.0	09:45	68.5	58.6	88.8	14:35	78.3	65.6	100.8	19:25	72.9	65.1	89.1
00:10	73.2	60.6	92.0	05:00	60.2	41.1	75.2	09:50	67.3	58.6	79.7	14:40	71.3	64.2	85.8	19:30	72.1	65.7	87.2
00:15	73.5	59.1	97.7	05:05	65.6	40.3	84.8	09:55	79.8	59.6	102.2	14:45	72.0	61.8	87.7	19:35	71.0	64.6	88.8
00:20	72.8	61.2	88.2	05:10	60.2	43.8	81.6	10:00	78.1	56.8	99.6	14:50	71.3	61.9	85.0	19:40	72.6	66.4	88.2
00:25	71.5	58.5	89.7	05:15	65.8	40.9	84.9	10:05	66.9	59.7	82.5	14:55	72.7	62.5	91.5	19:45	70.3	65.0	85.1
00:30	72.4	58.7	89.0	05:20	65.4	42.9	83.0	10:10	67.7	62.8	80.3	15:00	71.9	61.2	88.4	19:50	76.1	65.5	98.7
00:35	66.9	55.1	87.9	05:25	61.7	42.4	76.6	10:15	71.7	64.1	87.1	15:05	70.3	61.5	85.3	19:55	72.5	65.4	88.9
00:40	63.7	48.5	79.1	05:30	64.6	49.6	84.2	10:20	66.4	56.2	82.3	15:10	69.2	60.6	83.5	20:00	71.6	65.0	88.9
00:45	63.2	43.1	86.3	05:35	66.4	44.8	88.4	10:25	65.2	58.4	82.6	15:15	72.2	62.0	88.9	20:05	70.4	64.3	82.9
00:50	66.1	45.7	89.1	05:40	62.6	51.7	76.3	10:30	69.2	61.4	83.5	15:20	67.6	58.6	78.7	20:10	71.4	64.6	86.8
00:55	69.2	49.2	94.1	05:45	68.7	47.5	86.6	10:35	71.1	63.2	89.3	15:25	67.6	57.3	79.4	20:15	70.6	65.7	82.7
01:00	62.7	41.8	80.5	05:50	65.5	49.1	81.5	10:40	67.2	61.9	82.4	15:30	68.4	59.5	81.3	20:20	75.9	65.7	96.7
01:05	61.7	44.5	80.9	05:55	66.6	57.7	87.1	10:45	66.6	61.5	84.9	15:35	67.6	62.5	80.0	20:25	70.1	63.6	84.7
01:10	62.0	46.7	84.6	06:00	70.4	51.8	87.3	10:50	68.5	61.3	83.4	15:40	71.3	60.6	85.1	20:30	70.1	64.2	87.7
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01:20	62.7	46.4	83.0	06:10	65.9	49.0	78.4	11:00	69.9	64.4	80.7	15:50	68.9	58.9	90.3	20:40	73.5	67.8	88.6
01:25	62.9	43.5	76.4	06:15	65.0	51.3	76.1	11:05	75.0	62.7	95.9	15:55	69.0	60.4	87.9	20:45	72.3	65.8	98.9
01:30	61.3	44.0	77.5	06:20	67.5	52.0	80.8	11:10	71.1	60.0	85.2	16:00	71.1	61.9	88.8	20:50	74.3	66.6	93.0
01:35	64.1	45.5	84.4	06:25	69.1	53.4	88.8	11:15	69.0	60.8	85.6	16:05	68.5	59.8	84.9	20:55	70.6	63.8	82.2
01:40	61.9	44.5	77.1	06:30	70.7	52.9	88.1	11:20	69.3	60.9	85.3	16:10	70.2	62.1	91.3	21:00	72.6	66.1	86.0
01:45	60.8	41.1	77.1	06:35	68.2	53.6	83.5	11:25	67.6	58.5	83.4	16:15	69.2	61.2	88.0	21:05	72.2	65.9	88.1
01:50	61.6	41.8	80.7	06:40	68.8	59.0	84.2	11:30	66.9	59.3	78.4	16:20	69.9	59.6	88.4	21:10	70.8	64.9	82.6
01:55	57.8	42.4	73.6	06:45	68.5	58.7	84.0	11:35	68.1	57.4	83.8	16:25	70.7	60.4	90.2	21:15	71.4	65.1	87.0
02:00	60.8	44.4	78.6	06:50	70.6	57.1	92.8	11:40	71.5	59.0	89.1	16:30	71.0	64.5	88.9	21:20	70.5	65.4	81.8
02:05	61.1	45.4	77.3	06:55	69.9	60.6	86.0	11:45	70.1	60.8	82.1	16:35	71.5	67.2	88.6	21:25	71.4	65.7	85.5
02:10	63.4	53.8	80.0	07:00	71.1	62.6	87.6	11:50	70.2	59.2	82.7	16:40	72.0	65.7	91.8	21:30	73.0	65.7	92.8
02:15	63.3	56.0	79.5	07:05	70.3	65.6	84.2	11:55	70.3	61.9	82.3	16:45	71.4	66.6	84.5	21:35	70.5	64.5	85.9
02:20	62.6	58.0	73.4	07:10	70.0	66.7	85.2	12:00	69.5	62.7	84.1	16:50	70.1	67.0	77.1	21:40	73.0	65.4	90.5
02:25	61.6	45.9	76.2	07:15	71.4	67.1	84.1	12:05	71.5	64.3	85.1	16:55	73.1	66.6	89.1	21:45	70.0	64.1	82.6
02:30	56.4	44.1	71.3	07:20	68.6	64.7	86.5	12:10	71.3	62.3	86.7	17:00	70.9	65.2	82.5	21:50	71.8	65.4	86.6
02:35	62.6	46.6	83.4	07:25	67.5	65.2	77.2	12:15	72.0	64.2	88.0	17:05	71.3	65.8	85.9	21:55	71.9	65.0	87.8
02:40	56.2	42.0	74.2	07:30	69.7	66.4	84.0	12:20	71.6	64.7	85.8	17:10	72.5	67.9	83.3	22:00	73.1	66.5	88.1
02:45	60.1	44.0	74.8	07:35	70.9	62.6	88.4	12:25	70.1	63.5	83.8	17:15	74.1	70.5	92.2	22:05	74.0	66.3	89.3
02:50	52.6	42.6	72.2	07:40	68.5	65.3	85.0	12:30	70.9	62.6	83.5	17:20	73.4	68.4	85.8	22:10	74.0	65.5	88.5
02:55	58.0	42.9	77.5	07:45	67.5	63.1	85.7	12:35	70.8	63.1	83.5	17:25	69.9	65.5	82.1	22:15	70.3	63.1	85.3
03:00	57.5	42.4	78.7	07:50	70.1	60.8	88.8	12:40	71.4	63.6	87.7	17:30	74.7	67.1	91.3	22:20	71.5	63.3	93.0
03:05	60.6	44.4	77.8	07:55	67.7	62.8	78.9	12:45	73.2	65.1	87.5	17:35	73.1	68.0	84.9	22:25	71.6	64.4	83.6
03:10	58.5	44.0	76.3	08:00	69.3	65.4	79.8	12:50	72.3	67.4	80.6	17:40	73.5	65.4	89.6	22:30	69.4	62.5	82.7
03:15	58.1	43.9	76.7	08:05	70.4	68.1	81.0	12:55	73.3	68.9	84.0	17:45	73.7	65.9	91.8	22:35	72.0	63.6	88.8
03:20	56.4	42.9	74.1	08:10	68.5	65.2	87.7	13:00	72.8	67.4	86.7	17:50	72.1	65.2	85.4	22:40	72.8	64.4	89.2
03:25	61.5	45.2	78.7	08:15	68.2	62.7	85.3	13:05	73.7	69.2	88.2	17:55	71.5	64.7	87.3	22:45	69.6	62.6	81.5
03:30	58.3	42.7	76.9	08:20	68.6	64.5	82.0	13:10	73.9	69.3	89.3	18:00	69.6	63.3	84.9	22:50	70.1	62.8	83.6
03:35	59.7	42.3	74.4	08:25	66.9	63.0	78.7	13:15	75.5	71.0	88.0	18:05	70.1	63.5	83.0	22:55	69.9	60.9	86.1
03:40	63.1	47.4	84.6	08:30	66.8	60.3	82.2	13:20	73.7	69.5	87.7	18:10	70.6	63.2	90.0	23:00	70.6	59.9	86.8
03:45	63.7	46.7	83.2	08:35	67.7	62.2	78.7	13:25	74.6	70.2	84.7	18:15	72.4	65.2	86.1	23:05	66.3	57.7	81.6
03:50	57.0	42.6	76.0	08:40	69.5	64.9	81.4	13:30	73.2	68.2	85.7	18:20	71.0	64.7	83.8	23:10	72.4	63.1	88.2
03:55	54.3	42.5	76.9	08:45	69.6	65.1	85.2	13:35	72.9	67.4	81.0	18:25	70.6	63.7	86.3	23:15	69.5	61.1	86.0
04:00	56.9	43.0	72.8	08:50	69.1	64.2	86.9	13:40	72.1	65.1	81.6	18:30	70.4	64.2	88.8	23:20	70.8	61.9	84.5
04:05	59.1	42.9	73.5	08:55	70.6	66.3	82.2	13:45	71.4	66.0	85.5	18:35	71.0	64.8	86.1	23:25	71.2	62.3	84.4
04:10	60.3	44.0	75.8	09:00	70.7	65.9	83.0	13:50	73.7	65.5	90.2	18:40	70.1	64.0	87.6	23:30	70.7	60.3	87.5
04:15	64.2	44.2	82.0	09:05	69.7	61.9	84.6	13:55	72.6	64.6	84.6	18:45	71.9	65.7	84.6	23:35	68.2	57.0	81.4
04:20	61.0	44.0	76.5	09:10	69.9	63.9	84.8	14:00	73.5	65.6	90.5	18:50	70.3	63.8	85.6	23:40	71.5	59.5	88.6
04:25	63.1	44.0	82.2	09:15	65.5	61.4	73.7	14:05	71.9	67.8	79.5	18:55	71.3	65.9	82.7	23:45	68.5	58.3	85.7
04:30	60.1	43.7	86.4	09:20	65.0	60.4	76.7	14:10	74.1	68.0	87.9	19:00	71.8	65.4	85.1	23:50	71.4	58.3	89.7
04:35	61.3	42.0	78.2	09:25	68.0	62.8	83.0	14:15	73.6	69.3	83.0	19:05	69.6	64.7	84.3	23:55	67.8	55.0	84.4
04:40	62.3	42.4	79.5	09:30	65.6	55.3	83.8	14:20	73.3	66.3	98.6	19:10	71.1	65.1	88.6				
04:45	53.3	40.2	69.7	09:35	70.3	59.8	85.5	14:25	71.4	65.6	84.8	19:15	70.0	65.1	83.9				

Table: 3 - LAMax Events Ranked

#	Time	LAMax
1	00:15	97.7
2	00:55	94.1
3	06:50	92.8
4	00:10	92.0
5	00:00	90.4
6	23:50	89.7
7	00:25	89.7
8	00:50	89.1
9	00:30	89.0
10	06:25	88.8
11	23:40	88.6
12	05:35	88.4
13	00:05	88.3
14	23:10	88.2
15	00:20	88.2
16	06:30	88.1
17	00:35	87.9
18	23:30	87.5
19	06:00	87.3
20	05:55	87.1
21	04:55	87.0
22	23:00	86.8
23	05:45	86.6
24	04:30	86.4
25	00:45	86.3
26	23:15	86.0
27	06:55	86.0
28	23:45	85.7
29	05:15	84.9
30	05:05	84.8
31	01:10	84.6
32	03:40	84.6
33	23:20	84.5
34	23:25	84.4
35	23:55	84.4
36	01:35	84.4
37	05:30	84.2
38	06:40	84.2
39	06:45	84.0
40	06:35	83.5
41	02:35	83.4
42	03:45	83.2
43	01:20	83.0
44	05:20	83.0
45	04:25	82.2
46	04:15	82.0
47	23:05	81.6
48	05:10	81.6
49	05:50	81.5
50	23:35	81.4
51	01:05	80.9
52	06:20	80.8
53	01:50	80.7
54	01:00	80.5
55	02:10	80.0
56	02:15	79.5
57	04:40	79.5
58	00:40	79.1

Figure 3 – View of Rouge Lounge & surrounding area