TK MAXX, CHARING CROSS ROAD, LONDON

M&E NOISE IMPACT ASSESSMENT REPORT

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AUDIT SHEET

REVISION	DESCRIPTION	DATE	ISSUED BY	REVIEWED BY
1	M&E Noise Impact Assessment Report	14/04/10	CC	BD
2	M&E Noise Impact Assessment Report	10/06/2010	CC	BD

Contents

1. INTRODUCTION

Hoare Lea Acoustics have been commissioned to undertake an assessment of the effect that the installation of new externally located M&E plant associated with the creation of a new TK Maxx store in Charing Cross Road, London, will have on local environmental noise conditions and the associated impact on the neighbouring community.

A survey has been undertaken to establish the existing background noise levels at the nearest noise sensitive location and determine sound levels generated by the new plant. The purpose of this assessment is to provide technical information regarding control of noise from externally located mechanical plant in support of the application for planning permission.

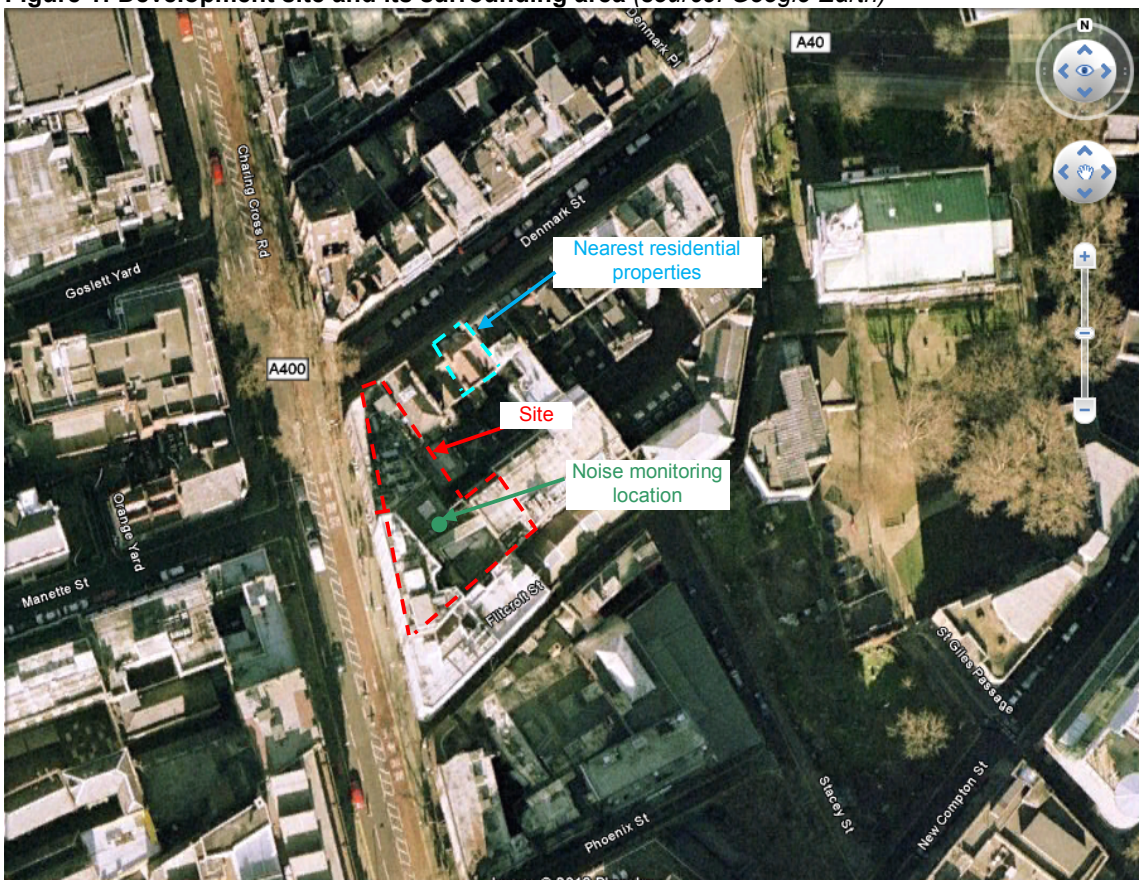
The report firstly offers a description of the site and identifies surrounding noise sensitive areas. The basis of the assessment is then discussed with reference to the London Borough of Camden Unitary Development Plan. The findings of the survey are then presented, including both qualitative observations and analysis of objective measurement data. On the basis of the evidence obtained, criteria are proposed which will limit the impact of the noise on the surrounding area.

A glossary of acoustical terms used throughout the report has been provided in Appendix A and details of the survey are presented in Appendix B.

2. SITE DESCRIPTION

The site in question is located at 118 -124 Charing Cross Road. Denmark Street is to the north of the site and a backyard area can be found at east of the site, as shown in Figure 1. This area is predominantly a busy commercial area. The buildings surrounding the site are mainly commercial/office buildings. The nearest residential building is marked in blue in Figure 1.

Figure 1: Development site and its surrounding area *(source: Google Earth)*



3. BASIS OF ASSESSMENT

3.1 London Borough of Camden Unitary Development Plan

It is understood from the London Borough of Camden Unitary Development Plan (UDP) that it requires under Policy SD8 that planning permission for plant or machinery, including ventilation or air handling equipment, will only be granted if it can be operated without causing a loss to local amenity and complies with the thresholds set out in Table 1.

Table 1. London Borough of Camden standard noise criteria

Noise description and location of measurement	Period	Time
The proposed plant noise ($L_{Aeq,1h}$) when measured at 1 metre external to a sensitive façade should be at least 5dB(A) below the existing background noise in the area (L_{A90})	Day, evening and night	0000 - 2400
If the proposed plant noise has a distinguishable discrete continuous note (whine, hiss, screech, hum), then the proposed plant noise ($L_{Aeq,1h}$) should be at least 10dB(A) below the existing background noise in the area (L_{A90}) when measured at 1 metre external to a sensitive façade.	Day, evening and night	0000 - 2400
If the proposed plant noise has distinct impulses (bangs, clicks, clatters, thumps), then the proposed plant noise ($L_{Aeq,1h}$) should be at least 10dB(A) below the existing background noise in the area (L_{A90}) when measured at 1 metre external to a sensitive façade.	Day, evening and night	0000 - 2400
The proposed plant noise ($L_{Aeq,1h}$) should be lower than 55dB L_{Aeq} when measured at 1 metre external to sensitive façade when the existing background noise in the area (L_{A90}) is higher than 60dB	Day, evening and night	0000 - 2400

As with most Local Authority policies on noise and planning, the London Borough of Camden observes the advice contained on Planning Policy Guidance Note 24 (PPG24). This recommends that where a potential 'new' noise source, which is industrial or commercial in nature, is introduced to a mixed commercial and residential area, the likelihood of noise complaints should be assessed using BS 4142: 1997 "Method for Rating Industrial Noise Affecting Mixed Residential and Industrial Areas".

4. BASELINE SURVEY

An acoustic survey was carried out at 118-124 Charing Cross Road roof area to establish the prevailing environmental noise conditions local to the site so as to enable the setting of appropriate noise limits for new plant installations. Both qualitative observations and objective measurement data were recorded.

4.1 General observations and comments

The noise climate in the area where the noise monitor was installed is typically dominated by distant, shielded traffic from Charing Cross Road.

4.2 Survey details

The survey comprised automated unattended measurements at a fixed position between 21:00 on the 30th of March and 02:00 on the 6th of April 2010. The sound level meter was situated at roof level, as shown in Figure 1. This location was chosen as being representative of the typical background noise climate.

The automatic sound level meter established values for the A-Weighted L_{eq} and L_{90} levels measured for sequential 5-minute sample periods. The instrument calibration was checked for sensitivity before and after the measurements and found to be within an acceptable range. Appendix A provides a glossary of these terms. Details of the equipment used are provided in Appendix B.

The periods when meteorological conditions were wet with cloud cover and occasional showers are not suitable for environmental noise measurements. In accordance with guidance given in BS 4142 these periods have been excluded.

4.3 Summary and analysis of results

Table 2 summarises the measurement results into single figure values for day-time, evening-time and night-time periods. These measurements show the evolution of noise levels during a typical day, evening and night-time period. It can be seen that for the L_{Aeq} noise levels, a decrease of around 1dB is observed between the average day, evening and night-time L_{Aeq} levels. Typical background noise levels, as measured by the L_{A90} parameter, are the same for day and evening periods and decrease by approximately 1dB at night-time. The measurement results are shown graphically for the full survey period in Appendix B.

Table 2. Summary of measurement results

Period	Ambient noise level L_{Aeq} dB(A) (typical average)	Background Noise Level L_{A90} dB(A) (typical lowest)
Day (0700-1900)	54	48
Evening (1900-2300)	53	48
Night (2300-0700)	52	47

5. NOISE IMPACT DUE TO DEVELOPMENT

Noise emission from the development (i.e. from proposed external mechanical plant) will need to be controlled to achieve acceptable levels of environmental noise both within the development itself and in the surrounding areas.

It is proposed that the new M&E plant should be designed to achieve noise levels totalling no more than 10dB(A) below the existing background noise level L_{A90} as measured at 1m from the nearest residential buildings facade; this is in accordance with the London Borough of Camden Unitary Development Plan as it is believed that the proposed plant noise is likely to have a distinguishable discrete continuous note (whine, hiss, screech, hum). The proposed criteria for M&E noise limits are shown, below, in Table 3.

It is important to recognise at this early stage that these recommended design criteria apply to the total contribution of noise from all plant associated with the development scheme.

Table 3. Plant noise limits

Period	Plant Noise Rating Limit at the nearest residence facade $L_{Aeq,15min}$ dB
Day (0700-1900)	38
Evening (1900-2300)	38
Night (2300-0700)	37

If there is determined to be a likelihood of tonal or intermittent content emitting from the equipment, the plant noise limits shall be reduced by 5 dB

6. CONCLUSION

- A background noise survey has been undertaken at 118-124 Charing Cross Road roof area where new M&E plant associated with the creation of a new TK Maxx store will be installed.

- The results of the background noise survey and observations made at the site have been presented in this report.

- Noise level limits for M&E plant associated with the new store have been proposed based upon the measured existing noise levels, the noise policy guidance provided by the London Borough of Camden Unitary Development Plan and the guidance for the assessment of complaint likelihood provided in BS 4142. The M&E plant installation should be designed in a way which allows these criteria to be achieved.

APPENDIX A – GLOSSARY OF TERMS

Decibel (dB)

The decibel is the unit used to quantify sound pressure levels. The human ear has an approximately logarithmic response to acoustic pressure over a very large dynamic range (typically 20 micro-Pascals to 100 Pascals). Therefore, a logarithmic scale is used to describe sound pressure levels and also sound intensity and power levels. The logarithm's are taken to base 10. Hence an increase of 10 dB in sound pressure level is equivalent to an increase by a factor of 10 in the sound pressure level (measured in Pascals). Subjectively, this increase would correspond to a doubling of the perceived loudness of sound.

A-Weighting

The 'A' weighting is a correction term applied to the frequency range in order to mimic 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. An 'A' weighted value would be written as dB(A).

$L_{Aeq,T}$

The A-Weighted equivalent continuous sound level – the sound level of a notionally steady sound having the same energy as a fluctuating sound over a specified measurement period (T). LAeq,T is used to describe many types of noise and can be measured directly with an integrating sound level meter.

$L_{A90,T}$

The A-Weighted noise level exceeded for 90% of the specified measurement period (T).

L_{Amax}

The highest A-Weighted noise level recorded during a noise event.

Rating Level

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

APPENDIX B – DETAILS OF ENVIRONMENTAL NOISE SURVEY

Automated Measurements

Automated noise logger:

Svantek - Sound Level Meter: SVAN 949 sn: 6750

GRAS - Microphone: 40AE sn: 49513

Svantek - Pre-amplifier: SV 12 sn: 5917

Additional Equipment

Brüel and Kjær - Sound Calibrator: 4231 sn: 2291561

All this equipment conforms to the requirements for type 1 sound level meters and was calibrated to (traceable) UKAS standard. It was checked for sensitivity both before and after the survey and found to be within the acceptable tolerance.

Figure B1. Unattended Noise Measurement Survey Data (rain periods were excluded)

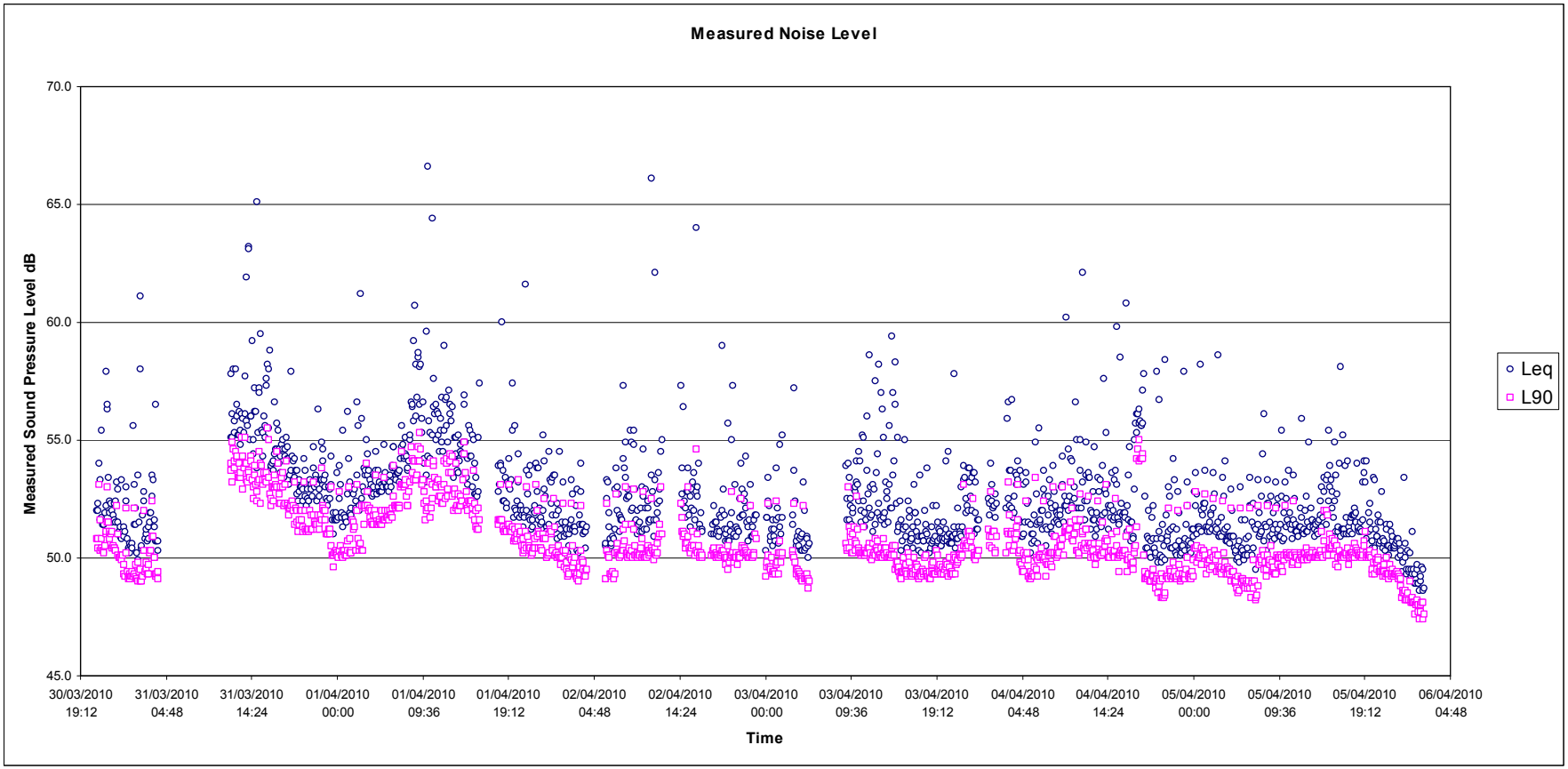


Table B1. Unattended Noise Measurement Survey Data (rain periods were excluded)

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05/04/2010 06:38:00	48.9	05/04/2010 10:38:00	50.1	05/04/2010 14:38:00	52.0
05/04/2010 06:43:00	48.7	05/04/2010 10:43:00	50.0	05/04/2010 14:43:00	50.7
05/04/2010 06:48:00	49.9	05/04/2010 10:48:00	50.1	05/04/2010 14:48:00	50.3
05/04/2010 06:53:00	49.0	05/04/2010 10:53:00	50.2	05/04/2010 14:53:00	52.0
05/04/2010 06:58:00	48.2	05/04/2010 10:58:00	50.1	05/04/2010 14:58:00	50.1
05/04/2010 07:03:00	48.3	05/04/2010 11:03:00	50.1	05/04/2010 15:03:00	51.8
05/04/2010 07:08:00	48.4	05/04/2010 11:08:00	49.7	05/04/2010 15:08:00	50.1
05/04/2010 07:13:00	48.8	05/04/2010 11:13:00	49.8	05/04/2010 15:13:00	50.4

Time	L90	Time	L90	Time	L90
05/04/2010 15:18:00	51.0	05/04/2010 18:53:00	50.0	05/04/2010 22:28:00	49.2
05/04/2010 15:23:00	50.4	05/04/2010 18:58:00	50.3	05/04/2010 22:33:00	49.3
05/04/2010 15:28:00	50.4	05/04/2010 19:03:00	50.1	05/04/2010 22:38:00	49.3
05/04/2010 15:33:00	50.8	05/04/2010 19:08:00	50.7	05/04/2010 22:43:00	49.3
05/04/2010 15:38:00	50.5	05/04/2010 19:13:00	50.5	05/04/2010 22:48:00	49.3
05/04/2010 15:43:00	50.1	05/04/2010 19:18:00	51.1	05/04/2010 22:53:00	49.4
05/04/2010 15:48:00	50.6	05/04/2010 19:23:00	50.2	05/04/2010 22:58:00	49.3
05/04/2010 15:53:00	50.7	05/04/2010 19:28:00	50.0	05/04/2010 23:03:00	49.1
05/04/2010 15:58:00	50.4	05/04/2010 19:33:00	50.1	05/04/2010 23:08:00	49.2
05/04/2010 16:03:00	49.7	05/04/2010 19:38:00	50.0	05/04/2010 23:13:00	49.1
05/04/2010 16:08:00	50.5	05/04/2010 19:43:00	50.1	05/04/2010 23:18:00	48.8
05/04/2010 16:13:00	50.0	05/04/2010 19:48:00	50.3	05/04/2010 23:23:00	48.3
05/04/2010 16:18:00	49.6	05/04/2010 19:53:00	50.1	05/04/2010 23:28:00	48.6
05/04/2010 16:23:00	50.3	05/04/2010 19:58:00	50.0	05/04/2010 23:33:00	48.5
05/04/2010 16:28:00	50.0	05/04/2010 20:03:00	49.3	05/04/2010 23:38:00	48.5
05/04/2010 16:33:00	50.0	05/04/2010 20:08:00	49.5	05/04/2010 23:43:00	48.2
05/04/2010 16:38:00	50.0	05/04/2010 20:13:00	49.8	05/04/2010 23:48:00	48.6
05/04/2010 16:43:00	50.1	05/04/2010 20:18:00	50.2	05/04/2010 23:53:00	48.3
05/04/2010 16:48:00	50.1	05/04/2010 20:23:00	49.3	05/04/2010 23:58:00	48.2
05/04/2010 16:53:00	50.1	05/04/2010 20:28:00	49.9	06/04/2010 00:03:00	48.5
05/04/2010 16:58:00	50.0	05/04/2010 20:33:00	49.8	06/04/2010 00:08:00	48.2
05/04/2010 17:03:00	50.2	05/04/2010 20:38:00	49.5	06/04/2010 00:13:00	48.2
05/04/2010 17:08:00	50.1	05/04/2010 20:43:00	50.0	06/04/2010 00:18:00	49.0
05/04/2010 17:13:00	50.2	05/04/2010 20:48:00	49.9	06/04/2010 00:23:00	48.1
05/04/2010 17:18:00	50.4	05/04/2010 20:53:00	49.4	06/04/2010 00:28:00	48.2
05/04/2010 17:23:00	50.1	05/04/2010 20:58:00	49.6	06/04/2010 00:33:00	48.3
05/04/2010 17:28:00	49.7	05/04/2010 21:03:00	49.4	06/04/2010 00:38:00	48.1
05/04/2010 17:33:00	50.0	05/04/2010 21:08:00	49.4	06/04/2010 00:43:00	48.1
05/04/2010 17:38:00	50.1	05/04/2010 21:13:00	49.5	06/04/2010 00:48:00	48.1
05/04/2010 17:43:00	50.2	05/04/2010 21:18:00	49.2	06/04/2010 00:53:00	47.6
05/04/2010 17:48:00	50.2	05/04/2010 21:23:00	49.4	06/04/2010 00:58:00	48.0
05/04/2010 17:53:00	50.0	05/04/2010 21:28:00	49.7	06/04/2010 01:03:00	48.1
05/04/2010 17:58:00	50.1	05/04/2010 21:33:00	49.2	06/04/2010 01:08:00	48.2
05/04/2010 18:03:00	50.6	05/04/2010 21:38:00	50.0	06/04/2010 01:13:00	48.0
05/04/2010 18:08:00	50.0	05/04/2010 21:43:00	49.3	06/04/2010 01:18:00	47.7
05/04/2010 18:13:00	50.4	05/04/2010 21:48:00	49.3	06/04/2010 01:23:00	47.4
05/04/2010 18:18:00	50.2	05/04/2010 21:53:00	49.1	06/04/2010 01:28:00	47.7
05/04/2010 18:23:00	50.3	05/04/2010 21:58:00	49.3	06/04/2010 01:33:00	48.0
05/04/2010 18:28:00	50.1	05/04/2010 22:03:00	49.7	06/04/2010 01:38:00	48.1
05/04/2010 18:33:00	50.2	05/04/2010 22:08:00	49.3	06/04/2010 01:43:00	48.1
05/04/2010 18:38:00	50.1	05/04/2010 22:13:00	49.2	06/04/2010 01:48:00	47.4
05/04/2010 18:43:00	50.2	05/04/2010 22:18:00	49.5	06/04/2010 01:53:00	47.6
05/04/2010 18:48:00	50.1	05/04/2010 22:23:00	49.3		