259 Kentish Town Road London

ENVIRONMENTAL NOISE ASSESSMENT

Acoustics Report M1604/R01 31st March 2016

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1 Introduction

This acoustic report documents a survey to establish the existing environmental noise levels at the nearest dwellings to 259 Kentish Town Road, London.

The noise survey is required as part of the Construction Management Plan for the proposed redevelopment scheme at the site.

The report is set out in the following sections:

- Section 2: Overview of the development
- Section 3: Environmental noise survey

2 Overview of the development

259 Kentish Town Road, which is currently empty, is a three storey end of terrace brick built building. The proposed scheme is for the demolition of the existing building, with the exception of the front façade which will be retained, and the construction of a commercial and residential use building.

The proposed operating hours of the site are 07:30 – 16:30hrs Monday – Friday.

The facades of the nearest dwellings that will be exposed to the greatest noise emissions from the works are identified in Figure 1 by the pink, yellow, green and orange dashed lines.

The nearest commercial buildings are a three storey office block on Crown Place and a charity shop at ground floor adjacent to 259 Kentish Town Road.

3 Environmental Noise Survey

- Survey date: 15th 16th March 2016
- · Weather: Dry with wind speeds less than 10mph
- Monitor locations: the microphones, attached to poles extended out of windows, were located at; Figure 1
 - o Position A: 1m from the Kentish Town Road façade at 2nd floor level
 - Position B: 1m from the rear façade at 1st floor level

• Equipment:

- o Position A: Brüel & Kjær Type 2260
- Position B: Brüel & Kjær Type 2238
- Monitor configuration: noise monitors configured to record consecutive 15-minute samples of noise
- Calibration: noise monitors calibrated before and after the survey using a Brüel & Kjær
 Type 4231 calibrator with no deviations found

Tabulated results are given in Table A1, Appendix A. Note that as microphones were 1m from the façades all measurements include façade reflections

The noise levels recorded are considered to be representative to those that will occur at the nearest dwelling facades, namely:

- Position A: on Kentish Town Road; facades indicated by the pink and orange dashed lines in Figure 1
- Position B: adjacent and to the west of the rear of 259 Kentish Town Road; facades indicated by dashed yellow and green lines in Figure 1

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Figure 1. Aerial view and photos of 259 Kentish Town Road and nearest dwellings

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3.1 Survey observations

The dominant noise source affecting the local area consisted of the road traffic on Kentish Town Road. The road is extremely busy and included HGVs, buses and emergency vehicles.

Warning beeps from the pelican crossing directly in front of the development were also clearly audible. The crossing was noted to be in use approximately every 3 minutes during the setting up and collection of the noise monitors.

3.2 Findings

Figures 2 and 3 show the free-field variation of the measured maximum ($L_{Amax,F}$ dB), ambient (L_{Aeq}) and background (L_{A90}) noise levels over the survey period at Positions A and B respectively.

Table 1 provides the established lowest free-field 1hr ambient and typical maximum and background noise levels at Positions A and B over the day, evening and night periods. The typical day period background noise levels are also shown in Figures 2 and 3. Note that the day period covers the proposed operating hours of the site.

The measured noise levels include façade reflections. To obtain free-field values as reported in Table 1 and shown in Figures 2 and 3, 3dB has been ducted from the survey data given in Table A1, Appendix A.

Table 1. Existing free-field environmental noise levels at nearest dwellings to 259 Kentish Town Road											
Measurement Position:		А		В							
Represents:		own Road fa arest dwellir		Façades of the nearest dwellings adjacent and to the west of the rear of 259 Kentish Town Road							
Facades identified in Figure 1:											
Period	Typical L _{Amax,F} dB	Lowest L _{Aeq,1hr} dB	Typical L _{A90} dB	Typical L _{Amax,F} dB	Lowest L _{Aeq,1hr} dB	Typical L _{A90} dB					
Day (07:00 - 18:00hrs) ^{Note 1}	91	66	61	72	48	45					
Evening (18:00 - 23:00hrs)	92	66	59	79	49	45					
Evening (18:00 - 23:00hrs) Night (23:00 - 07:00hrs)	92 82	66 60	59 45	79 73	49 43	45 38					

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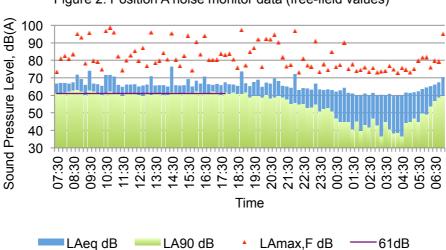
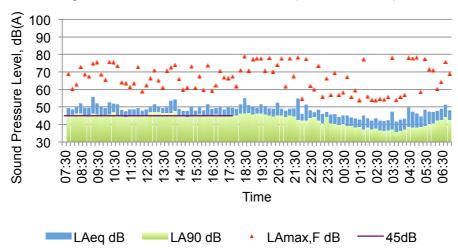


Figure 2. Position A noise monitor data (free-field values)





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Table A4 Desitions A and Durains manifest data (faced a laurale)													
Table A	1. Positions A and B noise monitor data (faça								D 111 D				
Start	Position A		Position B		Start	Position A			Position B				
Time	$L_{Amax,F}$	L_{Aeq}	L _{A90}	$L_{Amax,F}$	L_Aeq	L _{A90}	Time	$L_{Amax,F}$	L _{Aeq}	L _{A90}	$L_{Amax,F}$	L_{Aeq}	L _{A90}
	dB	dB	dB	dB	dB	dB		dB	dB	dB	dB	dB	dB
07:30	76.5	69.7	64.0				19:30	90.2	70.7	62.5	80.9	54.5	49.0
07:45	83.9	70.0	63.5	71.9	52.3	47.5	19:45	94.9	71.9	62.5	73.8	53.4	48.5
08:00	85.6	70.0	64.5	63.5	51.7	48.5	20:00	79.3	67.9	61.5	81.0	52.2	48.0
08:15	83.8	69.7	65.0	65.9	52.9	49.0	20:15	95.4	70.3	63.0	73.2	52.0	47.5
08:30	86.6	70.4	65.5	76.0	55.1	49.0	20:30	94.9	69.7	61.0	77.0	55.4	48.0
08:45	98.2	74.9	66.0	71.5	52.6	48.0	20:45	97.7	72.7	61.5	80.7	52.0	48.0
09:00	96.2	72.3	65.0	70.4	52.6	47.5	21:00	93.3	71.1	62.5	64.8	50.9	47.0
09:15	81.2	69.0	63.0	77.9	58.8	49.0	21:15	84.9	68.4	61.5	80.8	51.9	48.0
09:30	98.8	77.1	65.5	78.6	55.1	48.5	21:30	79.6	68.0	60.5	70.7	52.1	47.5
09:45	82.9	69.8	65.0	71.5	52.9	47.5	21:45	80.5	67.4	58.0	81.5	57.9	45.5
10:00	82.1	69.4	63.5	68.6	52.3	48.0	22:00	99.9	75.2	58.5	57.9	49.1	45.0
10:15	77.9	68.4	63.0	78.8	55.7	48.5	22:15	76.1	66.1	57.5	80.6	54.3	45.0
10:30	99.9	74.6	64.0	78.7	55.0	50.0	22:30	84.0	67.1	58.0	65.2	51.0	46.5
10:45	101.7	74.7	65.0	76.5	54.5	48.0	22:45	80.1	67.0	55.5	63.1	49.9	47.0
11:00	99.0	73.8	64.0	67.1	51.2	47.5	23:00	79.5	66.3	56.0	76.5	51.5	45.0
11:15	85.3	69.0	63.5	66.6	50.5	47.0	23:15	94.1	69.7	57.5	58.9	49.0	43.5
11:30	77.4	67.9	62.5	64.4	51.6	47.5	23:30	76.4	66.5	53.5	69.3	50.2	47.0
11:45	83.0	69.1	63.5	66.7	51.7	48.0	23:45	80.8	66.1	55.0	60.0	48.7	43.5
12:00	85.9	69.1	64.0	75.9	52.4	47.5	00:00	77.5	66.5	55.5	72.5	48.9	43.0
12:15	88.4	69.4	64.0	61.8	50.9	48.0	00:15	87.8	66.0	53.5	60.0	47.3	42.5
12:30	82.7	68.1	63.0	65.5	51.6	48.0	00:30	79.2	65.1	49.5	61.3	48.1	43.0
12:45	90.2	68.6	62.5	69.6	52.7	50.0	00:45	80.5	65.8	47.5	70.2	48.2	42.0
13:00	79.9	69.1	64.0	73.9	54.6	50.0	01:00	93.1	67.3	47.5	58.7	47.1	42.0
13:15	98.9	74.0	63.0	68.3	53.2	50.0	01:15	78.2	64.4	47.5	62.6	46.5	41.0
13:30	81.6	68.6	63.5	64.1	52.3	49.5	01:30	80.8	64.1	43.5	56.9	45.8	41.5
13:45	82.8	68.8	63.5	73.8	52.8	49.5	01:45	77.0	62.8	48.0	80.3	48.1	40.0
14:00	87.3	68.9	63.0	75.8	56.6	49.5	02:00	77.5	63.0	42.5	59.2	46.5	41.0
14:15	83.7	68.1	63.0	77.0	57.3	50.5	02:15	79.0	64.1	46.0	57.1	45.2	40.0
14:30	98.5	79.4	64.5	69.0	51.9	48.0	02:30	76.5	63.0	44.5	56.9	46.5	40.5
14:45	83.4	68.9	64.5	63.0	50.8	47.5	02:45	78.7	64.5	49.5	57.7	45.3	39.5
15:00	79.9	68.6	64.0	64.0	50.7	47.0	03:00	76.1	62.9	45.5	57.3	45.1	39.0
15:15	85.7	68.9	63.5	76.3	53.0	47.5	03:15	76.7	63.4	39.5	58.8	45.5	39.5
15:30	97.2	72.3	64.5	63.8	50.9	47.5	03:30	77.1	63.1	47.5	81.2	50.3	40.0
15:45	77.2	68.1	64.0	70.7	53.3	48.5	03:45	79.7	63.9	43.5	57.2	44.6	38.5
16:00	93.7	71.3	65.0	62.7	51.1	47.5	04:00	78.0	62.6	41.0	58.7	45.7	39.0
16:15	86.4	69.7	64.5	76.8	54.6	48.0	04:15	75.9	62.9	41.5	60.1	46.3	40.0
16:30	97.0	73.8	64.0	62.5	51.8	48.0	04:30	78.7	63.0	39.5	81.3	52.7	41.5
16:45	83.2	69.3	64.0	65.3	52.3	48.5	04:45	77.7	64.6	47.0	80.7	50.4	41.0
17:00	83.3	69.0	65.0	73.5	52.9	47.5	05:00	76.2	64.4	47.5	81.4	49.3	41.0
17:15	83.4	69.6	64.5	69.9	51.7	47.5	05:15	78.2	64.8	49.5	61.6	47.6	41.5
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17:45	86.1	70.4	64.5	70.5	52.6	48.0	05:45	84.8	66.7	52.5	74.7	50.3	43.0
18:00	86.9	69.3	63.5	64.9	51.9	48.0	06:00	84.9	67.6	52.0	74.1	50.1	43.5
18:15	83.6	69.1	64.5	74.2	54.6	49.0	06:15	79.0	68.3	56.5	63.3	50.8	45.0
18:30	78.8	68.5	63.5	82.0	58.1	49.0	06:30	82.9	69.1	59.5	67.3	51.9	45.5
18:45	100.5	76.7	63.5	73.8	54.0	49.5	06:45	82.4	70.4	61.5	78.8	54.3	47.0
19:00	80.1	69.9	64.5	80.4	53.0	48.5	07:00	98.2	73.4	62.5	72.1	51.0	45.5
19:15	87.8	68.2	61.5	80.8	52.6	49.0			2.2.2				,,,

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