Noise & Vibration Consultants
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Tel: **020 8859 0303** Fax: 020 8859 1211
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Angela Marquito,
Square Feet Architects,
8a Baynes Mews,
London, NW3 5BH.

REF: 102166.mb.001

13th February 2013

Dear Angela Marquito,

**Re: 4 Birchwood Drive, London, NW3 7NB.**

Further to our previous environmental noise assessment to predict the noise impact from installing mechanical plant in the garden area at 4 Birchwood Drive, London, NW3 7NB, the local planning authority (LPA) has further conditioned the planning application requesting another survey be carried post installation to ascertain if the predicted noise levels have been met.

The relevant planning condition is reproduced verbatim below:

5. *Prior to the first use of the plant hereby approved, a noise survey shall be carried out to ascertain that predicted noise levels, as provided in the acoustic report, Ref: 102166.ph.03.12.Issue1 are being met. A Noise Report shall be submitted for the approval of the Local Planning Authority in writing, and shall contain a map/plan showing all measurement locations, tabulated and graphically raw data, calculations / façade corrections / assumptions made, and time/date taken.*

To prove the background noise levels experienced at the nearest noise sensitive façade have not increased following the installation of the enclosed air condensing units, we surveyed the site again during the same time period that the previously lowest measured background noise level was recorded (02:00 - 03:00am on 28/03/2012).

Measurements of the background noise at the nearest noise sensitive façade were recorded with the air condensing units in operation and then with the units switched off. The location of the enclosed air condensing units can be seen in Diagram 1.

The nearest noise sensitive façade belongs to the residential windows of an adjacent property located on Birchwood Drive; this can be seen in Diagram 2.

A map detailing the location of plant, noise sensitive façade and measurement position can be seen in Diagram 3.

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**Diagram 1**


**Diagram 2**

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**Diagram 3**

The background noise data at the noise sensitive façade on 11/2/2013 with the air condensers on and off are detailed in Table 1 below:

| Date | Time | $L_{Aeq}$ (dB) | $L_{A90}$ (dB) | AC On/Off |
|---|---|---|---|---|
| 11/02/2013 | 02:15:13 | 35 | 32 | On |
| 11/02/2013 | 02:20:32 | 36 | 32 | On |
| 11/02/2013 | 02:38:41 | 37 | 33 | Off |
| 11/02/2013 | 02:43:21 | 36 | 32 | Off |

**Table 1**

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The lowest measured background noise levels obtained during our measurement exercise conducted on the 28th March 2012, prior to the installation of the mechanical plant, is detailed in Table 2 below:

| Date | Time | $L_{Aeq}$ (dB) | $L_{A90}$ (dB) | AC On/Off |
|---|---|---|---|---|
| 28/03/2012 | 02:09:16 | 37 | 33 | (not installed) |
| 28/03/2012 | 02:24:16 | 37 | 32 | (not installed) |
| 28/03/2012 | 02:39:16 | 38 | 33 | (not installed) |
| 28/03/2012 | 02:54:16 | 38 | 33 | (not installed) |

**Table 2**

From this data it can be concluded that the background noise at the nearest noise sensitive façade has not been increased by the installation of the enclosed air condensing units.

It was also noticed that subjectively, no fan noise was audible during the survey with the air condensers in operation when standing at the nearest noise sensitive façade.

Yours sincerely,

Matthew Bronka

Consultant