

## Progress Report on Plant Noise survey at Leverton Stores 50 Leverton street, NW5

**Date of report** 22<sup>nd</sup> Aug 2014  
**Dates of visits** 30<sup>th</sup> July 2014  
**Present** Mr Mahmet Dillou, owner, Shaun Murkett.  
**Location** Leverton stores, 50 Leverton st , Kentish Town, Camden, London NW5 2PG  
**Purpose** To conduct a plant noise survey for planning permission.  
**Author of report** Shaun Murkett BSc. C.Eng. MIEE. MIOA.

### **1 Progress report, completion of new unit installed.**

**1.1** This is a progress report following further complaints about the noise from the plant noise at the shop. The owner of the business has now recently bought and had installed a new external condenser fan unit as part of the chiller system for the refrigerated food in the shop. He has planning permission granted with a condition that a noise report confirms that the noise from the new unit meets the local authority criteria.

**1.2** The background noise levels were measured at typical times of operation, from a previous noise survey from another consultant, and we issued our own noise report with recommendations in March 2013, with calculations and target noise levels.

**1.3** A final noise test was recently commissioned after the new condenser unit was installed in the enclosure with new improved acoustic louvres, more internal melatech acoustic foam as recommended, together with the recommendations in our earlier report.

### **1.4 Target sound level at one metre after the works to meet criteria.**

The target sound level to be measured at one metre in direction of nearest residents = 41 dBA , at location A, and target of 52 dBA for location B, from our earlier report.

### **1.5 Sound levels measured late at night after enclosure and new unit fitted.**

The sound level at 1m from the enclosure at location A and B were both measured;

Sound level, at A, plant off	=	43.4	dB L <sub>Aeq</sub> (1 min)	41.7	dB L <sub>A90</sub> (1 min)
Sound level, at A, plant on	=	43.8	dB L <sub>Aeq</sub> (1 min)	40.6	dB L <sub>A90</sub> (1 min)
Sound level, at B, plant on	=	44.7	dB L <sub>Aeq</sub> (1 min)	41.3	dB L <sub>A90</sub> (1 min)

From the addition of sound levels calculation, for the dB L<sub>Aeq</sub> to rise from 43 dB plant off to 44 dB plant on would indicate that the contribution from the plant noise was less than 39 dBA, as the residual noise is the ambient background noise with-out the plant running, at 43 dBA. Thus the target of 41 dBA has been met at location A with a small safety margin, and the target at location B met with a slightly larger safety margin. This has ensured that the units are working correctly and this has confirmed that all the local authority noise criteria has now been met, and the planning condition can be cleared.

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