

Heineken Manchester, Denmark Road Manchester

Acoustic Commissioning Report
Report 23102.AC.02

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Report 23102.AC.02			
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1.0 INTRODUCTION

KP Acoustics Ltd has been commissioned by Norder Design Associates Limited, Beech Lawn, Green Lane, Belper, Derbyshire, DE56 1BY to measure noise levels emitted by a Boiler House serving the site at Heineken Manchester, Denmark Road, Manchester, M15 6LD. This follows mitigation measures that were undertaken to control noise breakout from the site. Norder project reference number 8654.

Attended noise surveys have been undertaken on site. This report presents the results of the measurements which are compared with noise criteria set in report reference '23102.230512.L1', as part of the planning requirements of Manchester City Council. This has been carried out to satisfy the conditions of Manchester City Council Planning Decision Notice: 135912/FO/2023.

2.0 NOISE ASSESSMENT GUIDANCE

2.1 Local Authority Guidance

The criterion of Manchester City Council in this instance is described in Planning Decision Notice: 135912/FO/2023:

"4) a) The premises shall be acoustically insulated and treated to limit the break out of noise in accordance with a noise study of the premises and a scheme of acoustic treatment that has been submitted to and approved in writing by the City Council as local planning authority together with a timescale for its implementation and submission of a verification report.

b) A verification report to validate that the work undertaken throughout the development conforms to the recommendations and requirements in the approved acoustic consultant's report shall be submitted in accordance with the previously agreed timescale's. The report shall also undertake post completion testing to confirm that acceptable criteria have been met. Any instances of non-conformity with the recommendations in the report shall be detailed along with any measures required to ensure compliance with the agreed noise criteria."

3.0 SITE SURVEYS

3.1 Site Description

The measured plant installation location is described within Table 3.1 and shown within Figure 3.1. The image in Figure 3.1 has green circles showing more items of plant, which should be ignored for the purposes of this report.

Icon	Descriptor	Plant Description
	Plant Position 1	Boiler House

Table 3.1 Plant position

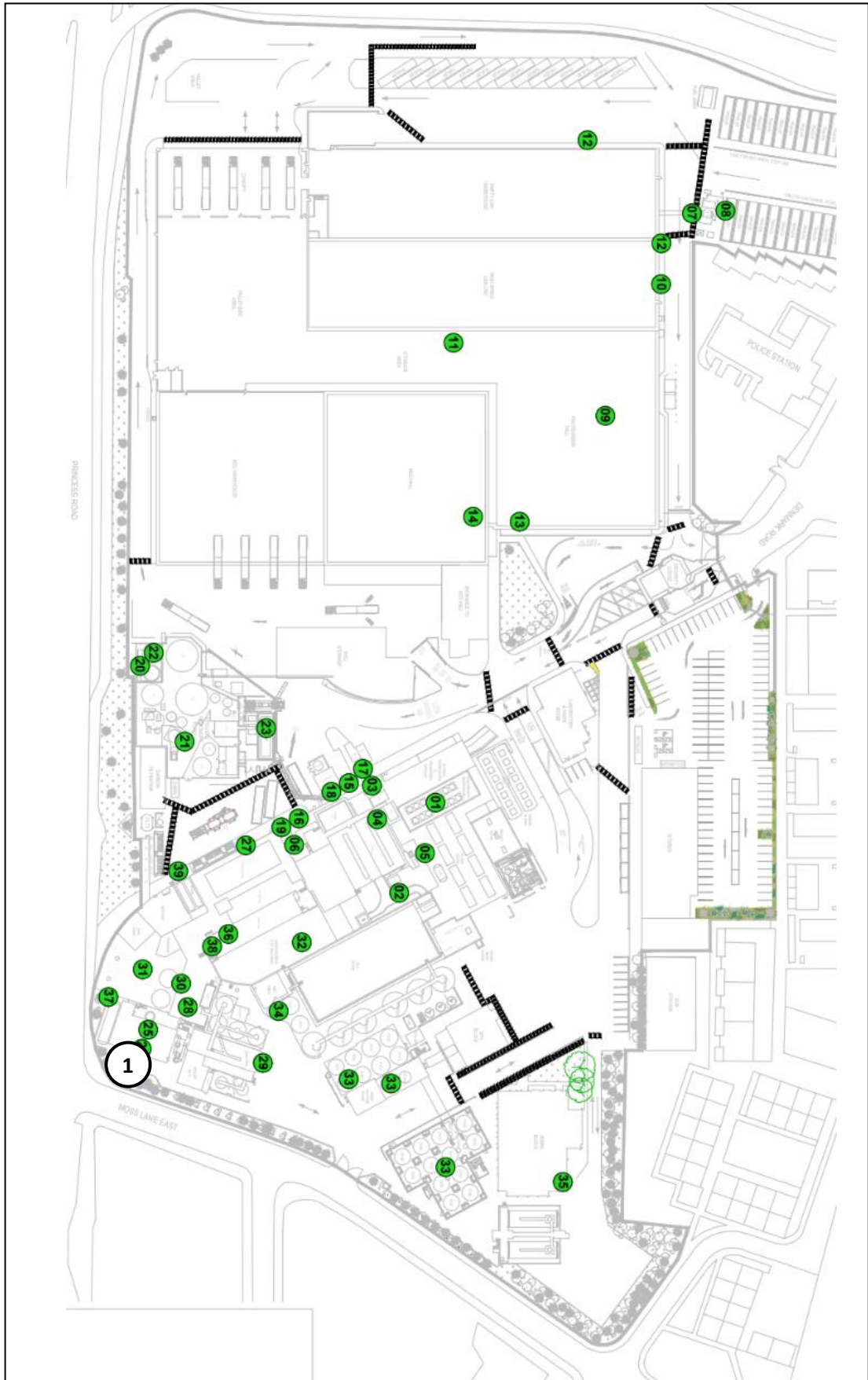


Figure 3.1 Plant positions (Image Source: Heineken)

3.2 Manual Noise Survey Procedure

Manual noise measurements of the installed plant were carried out on 10/12/2024. The microphone was placed 1 metre from the plant to be measured, or in this case of larger installations, from the façade.

The proximity of the measurement, and the noise level of each item of plant means that noise level from each item did not affect noise levels at the other items.

Weather conditions were generally dry with light winds and therefore suitable for the measurement of environmental noise. The measurement procedure complied with ISO 1996-2:2017 Acoustics '*Description, measurement and assessment of environmental noise - Part 2: Determination of environmental noise levels*'.

3.3 Equipment

The equipment calibration was verified before and after use and no abnormalities were observed. The equipment used is described within Table 3.2.

Instrument	Manufacturer and Type	Serial Number
SLM4 Precision integrating sound level meter & analyser	NTi Audio, XL2-TA Calibration No: UCRT23/1957, UCRT23/1965 & UCRT23/1964 Calibration Dates: 20/07/2023 Calibration Due: 19/07/2025	A2A-09207-E0
CAL3 – KP North Calibrator 3	Larson Davies CAL200 Calibration No: UCRT23/1949 Calibration Date: 07/08/2024 Calibration Due: 06/08/2025	8932

Table 3.2 Measurement instrumentation

4.0 RESULTS AND ASSESSMENT

The L_{A90} acoustic parameter was measured during the manned commissioning survey for boiler house. This metric was used to reduce as far as possible the influence of residual noise from the specific noise of the plant, which in all cases was constant. The results of the measurements are shown in the below table, where they are compared with targets obtained from the calculations described in 23102.230512.L1. The targets are the noise level, measured at 1 metre from each plant item, before alterations to the façade were carried out. The council criteria are set out in 23102.PCR.01 and 23102.230512.L1. The details of changes to the façade and new louvres were also described in 23102.230512.L1.

Description	Octave Frequency Band (Hz)								Overall (dBA)
	63	125	250	500	1k	2k	4k	8k	
2 - Boiler house high louvre on south side	70.6	66.3	60.9	58.6	58.9	57.5	56.7	50	65.4
2 - Boiler house low louvre on south side	72.4	69.9	63.2	57.6	58.9	57.4	57.2	51	66
Maximum target	82.3	84.2	78.7	75.2	70.7	72.6	71.7	65.1	80.3

Table 4.1 Measured noise levels and maximum target, sound pressure @ 1m – Boiler House

The results above show that the measured overall noise level outside the boiler house has decreased following changes to the facade and the installation of new louvres. Therefore, following the installation of mitigation, it can be concluded that the emissions criterion of the local authority described in Section 2.1 have been met.

5.0 CONCLUSION

A manned noise survey for the boiler house, following changes to the facade and the installation of new louvres has been undertaken at Heineken Manchester, Denmark Rd, Manchester, M15 6LD by KP Acoustics Ltd. The results of the survey have enabled assessment for plant noise emissions compliance with the local authority criterion.

Measurements and calculations show that noise emissions from the installed plant are fully compliant with the local authority criteria described in the report references *23102.PCR.01* and *23102.230512.L1*.