

To:
Dan Szymanski,
Principal Development Control Officer,
Northamptonshire County Council,
Planning Services,
Floor 3,
Guildhall Road Block,
County Hall,
Northampton,
NN1 1DN

CC:
Mandeep Jutley

Memo

Subject: Supporting Noise Information

Dear Dan,

I understand that you have received an application for a STOR at Wootton Landfill Site and you require further information regarding noise emissions.

The layout of the site showing the existing and proposed plant is shown in Figure 1 below:

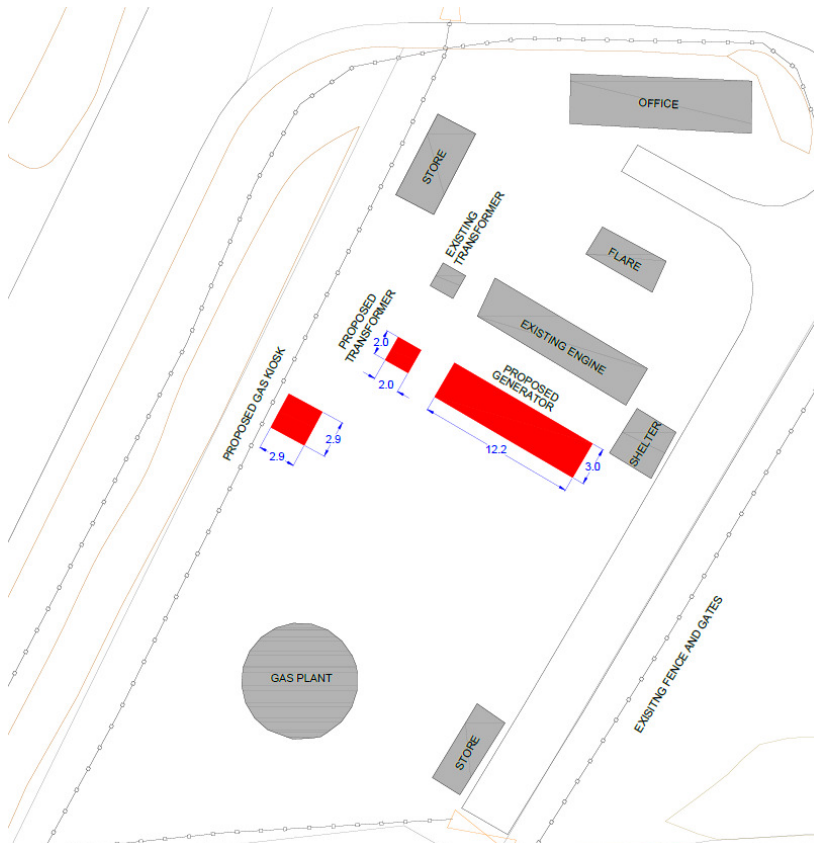


Figure 1: Location of Existing and Proposed Plant

The site is located to the south of Wootton, off the A45 and the nearest residential receptor is located 340m due southeast off Saxon Avenue.

At this stage our client is unable to confirm the manufacturer's details for the STOR facility as they are yet to source the equipment. However, they have stated that they are considering a generator with a noise level of 65dB(A) at 10m. This equates to a total sound power level of 98dB(A) taking into account the total area of the proposed generator.

On 30th January 2017 between 11:00 and 11:45 I visited the compound and carried out measurements of the existing engine, operating under normal conditions. Measurements were taken using a Rion NL-52 (s/n: 01021282) with calibrator (s/n 34425539).

Sound measurements were carried out on a measurement envelope around the existing engine to derive the sound power level. The overall sound power level of the existing engine has been derived to be 94dB(A).

The total noise level of the existing generator and the proposed generator is:

Existing engine	94dB(A)
Proposed generator	98dB(A)
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Total	100dB(A)
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The noise level with the new generator added would increase by 6dB(A).

Based on point source propagation, the predicted noise level at the nearest receptor off Saxon Avenue is:

Existing engine	35dB(A)
Proposed generator	39dB(A)
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Total	41dB(A)
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Based on indicative noise levels for the proposed generator, predicted noise levels at the nearest receptor would increase by 6dB. It should be noted that the noise climate at the nearest sensitive receptors off Saxon Avenue are not considered particularly quiet given its proximity to the A45.

Please call me if you require any further information.

Yours Sincerely



Robert Colder MEng PgDip MIOA

Senior Acoustic Consultant