

Retention of Waste Recycling Centre for construction and demolition waste to include a light weight structure, landscaped bund, parking and associated plant and machinery at Former Sewage Works, Waterbrook Road, Alton, Hampshire (Application No. 51471/002) (Site Ref: EH156)

Clarification of noise background levels and impacts at nearest noise sensitive properties as requested at Members Site Visit.

Supplementary information for Planning Committee

Following discussions with the Planning Officer it was agreed that a survey of background noise levels would be carried out at three locations and these were Lynch Hill Cottage (this was reported as Location 9 in the noise report attached to the Planning Application), and at the front and rear of agreed properties in Wilsom Road.

Therefore, a further assessment of potential noise nuisance has been undertaken at receptor points 1 to 4 to the west and north of the application site during a 2 hour shut down period on 21st July from 12:00 hrs and a summary of the findings in detailed below.

Receptor point 1 - At the junction of Omega Park and Wilsom Road in front of 28 Wilsom Road. The general background was dominated by traffic noise from the A31 (approximately 270m and elevated as it crosses Wilsom Road)) and more directly by traffic movements along Wilsom Road, and in to and out of Omega Park. During the 2nd 5 minute measuring period 59 vehicles movements were recorded. 5 minute background levels of 52.8 dBA, 57.3 dBA & 53.4 dBA were recorded, reflecting the variation due to individual bursts of heavy traffic associated with turning in to and out of Omega Park. For the purposes of this report the lowest value of 52.8dBA is used.

Receptor point 2 - At the end of the access road to the rear of 1 Oriel Court. The general background was dominated by traffic from the elevated Wilsom Road and to a lesser effect from the activities within the industrial estate and household waste recycling centre. There was no discernable noise from the adjacent electricity sub station. This background was representative of the background noise level at the rear of residential premises 1 – 11 Wilsom Road. The closest point to the application site is rear of number 11, which although further away from the application site than the front of 28 Wilsom Road proved to be more noise sensitive due to the lower background level. 5 minute background levels of 44.6 dBA, 45.6 dBA, 45.2 dBA, 44.1 dBA and 45.2 dBA were recorded. For the purposes of this report the lowest value of 44.1 dBA is used.

Receptor point 3 - This was taken on the pavement outside of Unit 4 of the Riverside development as the closest affected premises and close to the streamside walk. The background was dominated by traffic noise from the A31 (approximately 100m in an elevated position as it approaches the bridge over Wilsom Road) and air handling plant at the back of units entered from Omega Park. 5 minute background level of 52.8 dBA was recorded. For the purposes of this report the value of 52.8 dBA is used for the commercial receptors (none noise sensitive premises).

Receptor point 4 - Lynch Hill Cottage.

The original report identified the background level at Lynch Hill Cottage to the west as monitoring point 9 and chart 1 of that report shows the 15 minute values throughout the day. The L90 for Lynch Hill cottage is 43 dBA.

The monitoring points and relevant distances are shown in OS Sitemap extract

Summary table of Measurements of Background Noise and Predicted Noise from Site Operations.

Receptor	Background noise No site activity	Distance to Site boundary	Predicted noise from soil screening site operations LAeq	Predicted noise from soil screening and crushing site operations LAeq
Front of 28 Wilsom Rd	52.8 dBA	237m	34.8 dBA	39.2 dBA
Rear of 11 Wilsom Rd	44.1 dBA	275m	35.2 dBA	39.6 dBA
Front of Unit 4 Riverside	51.9 dBA	30m	45.0 dBA	49.6 dBA
Lynch Hill Cottage	43 dBA	500m	29.7 dBA	37.8 dBA

Observations.

From the top of the stock pile the upper rear facades of premises, believed to be The Kilns, are visible and any activity on the top would have a direct line of sight, above the intervening commercial units, to those upper rear facades. The main activities of soil screening and crushing on site at ground level would not have direct line of sight nor would other premises on Wilsom Road. During normal operational hours there are limited periods when the excavators are moving materials on the top of the stock piles to ensure it dries out. In these circumstances there will be direct line of sight to some of properties on Wilsom Road. Predicted noise levels are shown below: -

Receptor	Background noise No site activity	Distance to Site boundary	Predicted noise from soil screening site operations	Predicted noise from soil screening and crushing site operations
Front of 28 Wilsom Rd	52.8 dBA	237m	37.9 dBA	42.7 dBA
Rear of 11 Wilsom Rd	44.1 dBA	275m	36.3 dBA	39.7 dBA

Notes:

1. Predictions have assumed a single barrier between plant (screener, crusher) and therefore predictions are underestimated as there are multiple barriers between the site and the receptors

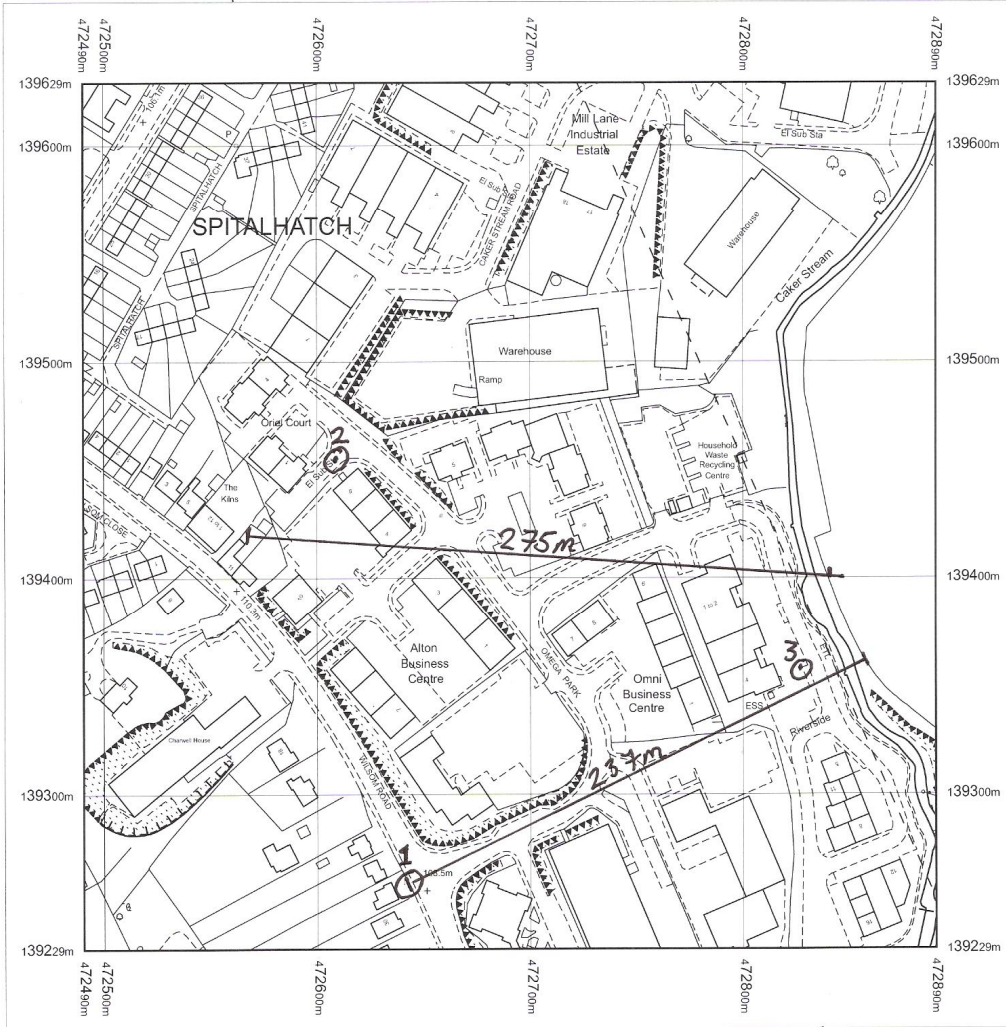
2. Determination of potential for noise nuisance.

This depends on the existing background noise level at a defined receptor, the noise level generated at a source and the calculated impact of that noise on the receptor. The receptor point is taken as the most noise sensitive premises (residential in this case) and may not be the closest. The background is defined as the level exceeded for 90% of the time. The time period for measuring the background will vary but

where the background is fairly constant 5 minutes is accurate. The source level is defined as the LAeq for the 8-hour working day.

Conclusion

This further assessment of potential for noise nuisance supports the conclusions of the noise report submitted with the Planning Application. I.e. there is no significant impact on the amenity of residential properties as the predicted noise levels are below current background and ambient (L_{Aeq}) noise levels.



① ② ③ Background monitoring

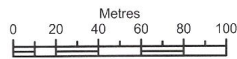
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