Wardell Armstrong
2 The Avenue, Leigh, Greater Manchester, WN7 1ES, United Kingdom
Telephone: +44 (0)1942 260101 Facsimile: +44 (0)1942 261754 www.wardell-armstrong.com

wardell armstrong
your earth our world

Our ref: CMD/SCU/ST14026/006 *Date*: 28th May 2015
Digital ref:
Your ref:

Mr Andy Manning
Naylor Industries plc
Clough Green
Cawthorne
Barnsley
S75 4AD

Dear Andy,

Valley Road, Wombwell – Supplementary Noise Mitigation Specification

We write further to your email on the 5th May 2015, with regards to noise impact associated with proposed change of use and, specifically, the proposed HGV and forklift activity at Unit 17, Valley Road, Wombwell. At your request, we have designed appropriate noise mitigation in order to achieve 10dB noise attenuation at first floor windows of nearby residential properties on Littlefield Lane in accordance with the 'Noise Impact Analysis (First Revision)' report compiled by S. & D. Garrit Ltd. dated 29th April 2015.

Noise Impact Assessment

The initial noise impact assessment, carried out by S. & D. Garrit Ltd. concludes that the noise impact at Littlefield Lane, during the night-time (the most sensitive time with regard to noise) is less than a 'significant adverse impact' in accordance with BS4142:2014, when noise mitigation is incorporated. A description of noise mitigation considered during the original assessment is included in the Appendix. This details the sound level calculations undertaken throughout the assessment process; Section B of the appendix deals with 'Sound Generated by Vehicles and Forktrucks'. This section specifies that "Vehicle movements in the outdoor yard will be shielded from Littlefield Lane by a noise barrier". The report recommends that a barrier should be incorporated into the site design to attenuate noise from vehicles in the yard by at least 10dB in order to achieve a noise impact of less than 'significant adverse impact' in accordance with BS4142.

We understand that you wish to retain land adjacent to the existing yard for future expansion. Therefore, Wardell Armstrong have taken this in to consideration and provided a solution which retains as much land as possible while maintaining a practical design that achieves the required noise attenuation requirements.

Recycled
ISO 9001 UKAS ISO 14001 UKAS OHSAS 18001 UKAS iema EIA

Wardell Armstrong is the trading name of Wardell Armstrong LLP, Registered in England No. OC307138.

Registered office: Sir Henry Doulton House, Forge Lane, Etruria, Stoke-on-Trent, ST1 5BD, United Kingdom

UK Offices: Stoke-on-Trent, Birmingham, Cardiff, Carlisle, Edinburgh, Greater Manchester, London, Newcastle upon Tyne, Penryn, Sheffield, Truro, West Bromwich. International Offices: Almaty, Moscow

ENERGY AND CLIMATE CHANGE
ENVIRONMENT AND SUSTAINABILITY
INFRASTRUCTURE AND UTILITIES
LAND AND PROPERTY
MINING AND MINERAL PROCESSING
MINERAL ESTATES AND QUARRYING
WASTE RESOURCE MANAGEMENT

Noise Mitigation Recommendations

Barrier calculations have been carried out using the method described within the Department of Transport's technical memorandum Calculation of Road Traffic Noise, which can be adopted to suit this exercise. The effect of the barrier at 1st floor window height at the nearest noise sensitive property on Littlefield Lane is considered to be representative of all receptors along Littlefield Lane.

The height of the barrier needed to provide enough noise attenuation is proportional to the distance between noise source and the barrier. Therefore, as the barrier extends to the north east, and gets closer to the noise source, it can be reduced in height relative to the distance between source and barrier decreasing.

The proposed barrier is made up of a combination of bund and close boarded fence construction with a density of at least 10Kg/m^2 and a combined height of 7m at its maximum point. Barrier elevations are detailed on drawing number ST14026-004.

Summary

The noise mitigation measures required between the proposed activity of vehicles in the outdoor yard area at Unit 17, Valley Road, Wombwell and nearby noise sensitive properties on Littlefield Lane is outlined in the 'Noise Impact Analysis (First Revision)' report compiled by S. & D. Garrit Ltd. dated 29th April 2015.

This letter report provides details of the barrier required to achieve 10dB of noise attenuation and meet the requests of Naylor Industries plc.

We trust this letter is clear; however if you have any queries please do not hesitate to get in touch.

Yours sincerely
for Wardell Armstrong

SIMON URQUHART
Associate Director
surquhart@wardell-armstrong.com

MARK DAWSON
Technical Director
mdawson@wardell-armstrong.com