

Noise and Dust Management Plan



Job No: 722

Job Name: Land north of Warwick House

Location: Warwick House 1 Warwick Road Reading RG2 7AX

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The Byre Lantern Courtyard
The Street Bramley
Hampshire RG26 5DE

T 01256 587 888
E studio@morsewebb.co.uk
W morsewebb.co.uk

1.0 Introduction

This document has been prepared to set out how building work for land to the north of Warwick House will minimise the impact of the construction and demolition process on the local area with reference to noise, dust and vibration. It should be read in conjunction with the Construction Method Statement and accompanying drawing 722-100.

2.0 Reduction in noise

The following measures will be implemented to control noise from the site during construction and demolition phases:

- Coordinated delivery times and efficient traffic management to prevent queues of traffic accessing the site.
- Ensuring all plant has sound reduction measures (mufflers, baffles, or silencers).
- Utilising construction techniques that minimise the production of noise.
- Utilisation, where possible, of prefabricated components.
- Strict adherence to the site working hours (8am - 6pm Monday to Fridays; 9am - 1pm Saturdays).
- Hoarding to perimeter which will reduce noise further.

3.0 Reduction in dust

The following measures will be implemented to control dust from the site during construction and demolition phases:

- Potential dust producing activities to take place behind dust encapsulation scaffold.
- Ensure an adequate water supply on the site.
- Disposal of run-off water from dust suppression activities is in accordance with the appropriate legal requirements.
- All dust control equipment is maintained in good condition and record maintenance activities.
- Strip insides of garage and outbuilding before demolition of the structure and envelope.
- Site hoarding, barriers and scaffolding are kept clean.
- The provision of clean hard standings for vehicles. Regular cleaning of hard standings using wet sweeping methods, no dry sweeping of large areas.
- Loading of material into lorries within designated loading / unloading areas.
- If necessary, clean public roads and access routes using wet sweeping methods.
- All vehicles carrying loose or potentially dusty material to or from the site are fully sheeted.
- Materials with the potential to produce dust are stored away from site boundaries where reasonably practicable.
- Minimise the amount of excavated material held on site.
- Sheet, seal, or damp down unavoidable stockpiles of excavated material held on site, where required.
- Avoid double handling of material wherever reasonably practicable.
- Ensure water suppression is used during demolition operations.
- Use enclosed rubble chutes and conveyors where reasonably practicable or use water to suppress dust emissions from such equipment.

- Sheet or otherwise enclose loaded bins and skips.
- Minimise drop heights from conveyors, loading shovels, hoppers and other loading or handling equipment and use fine water sprays on such equipment wherever appropriate.
- Only use cutting, grinding, or sawing equipment fitted or in conjunction with suitable dust suppression techniques such as water sprays or local extraction.
- The engines of all vehicles and plant on site are not left running unnecessarily to prevent exhaust.
- Use low emission vehicles and plant fitted with catalysts, diesel particulate filters or similar devices.
- Site foreman to carry out site inspections regularly to monitor compliance with dust control procedures set out above and record the results of the inspections, including nil returns, in the logbook detailed.
- Record any exceptional incidents causing dust episodes on or off the site and the action taken to resolve the situation in the logbook detailed in above.
- The Contractor will ensure that dust monitoring will be carried out during potential dust producing activities. The assessment will look at the dust raising potential of construction activities proximity to potential receptors and the duration

4.0 Reduction in vibration

Construction activity can result in varying degrees of ground vibration, depending on the equipment and methods employed. Operation of construction equipment causes ground vibrations which spread through the ground and diminish in strength with distance. Buildings founded on the soil in the vicinity of the construction site respond to these vibrations, with varying results ranging from no perceptible effects at the lowest levels, low rumbling sounds at moderate levels and slight damage at the highest levels. Ground vibrations from construction activities very rarely reach the levels that can damage structures but can achieve the audible and ranges in buildings very close to the site.

Vibration is a particular risk during the demolition phase. The measures taken to reduce the acoustic impact of these operations will also assist in mitigating the effects of vibration on neighbours and the existing buildings on the site.

Locate potential impacts from construction vibrations and then identify control measures. Mitigation of construction vibration requires consideration of equipment location and processes.

Manage deliveries in HGV's to avoid anti-social hours and multiple deliveries at once. Operate earth moving equipment on the construction lot as far away from vibration-sensitive sites as possible.

Phase demolition, earthmoving and ground-impacting operations so as not to occur in the same time period where possible. Unlike noise, the total vibration level produced could be significantly less when each vibration source operates separately.

Avoid impact pile driving where possible in vibration-sensitive areas. Drilled piles or the use of a sonic or vibratory pile driver causes lower vibration levels where the geological conditions permit their use.

Select demolition methods not involving impact, where possible. For example, sawing into sections that can be loaded onto lorries results in lower vibration levels than impact demolition by breakers.

5.0 Environmental safety

The following measures will be implemented to ensure environmental safety is maintained throughout the site:

- Ensuring all contaminants kept on site are safely stored with the necessary procedures put in place for leaks and spillages etc.
- A waste management system will be implemented on site.

Good management practises will be carried out to minimise the effects of noise and dust on the environment and local community. The local neighbours will be notified of any other sensitive environmental issues that need to be addressed.