

B&Q Cricklewood ES Volume III

Appendix 8-1: Dust Risk Assessment

Montreaux Cricklewood Developments Ltd

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This appendix presents mitigation measures associated with the demolition and construction of the Proposed Development, which will be adopted to control dust outlined within the relevant guidance documents.

Mitigation Measure

Site Management

Develop and implement a stakeholder communications plan that includes community engagement before work commences on site.

Develop a Dust Management Plan.

Display the name and contact details of person(s) accountable for air quality pollutant emissions and dust issues on the site boundary.

Display the head or regional office contact information.

Record and respond to all dust and air quality pollutant emissions complaints.

Make a complaints log available to the local authority when asked.

Carry out regular site inspections to monitor compliance with air quality and dust control procedures, record inspection results, and make an inspection log available to the local authority when asked.

Increase the frequency of site inspections by those accountable for dust and air quality pollutant emissions issues when activities with a high potential to produce dust and emissions and dust are being carried out, and during prolonged dry or windy conditions.

Record any exceptional incidents that cause dust and air quality pollutant emissions, either on or off the site, and the action taken to resolve the situation is recorded in the log book.

Preparing and Maintaining the Site

Plan site layout: machinery and dust causing activities should be located away from receptors.

Erect solid screens or barriers around dust activities or the site boundary that are, at least, as high as any stockpiles on site.

Fully enclosure site or specific operations where there is a high potential for dust production and the site is active for an extensive period.

Install green walls, screens or other green infrastructure to minimise the impact of dust and pollution.

Avoid site runoff of water or mud.

Keep site fencing, barriers and scaffolding clean using wet methods.

Remove materials from site as soon as possible.

Cover, seed or fence stockpiles to prevent wind whipping.

Carry out regular dust soiling checks of buildings within 100m of site boundary and cleaning to be provided if necessary.

Provide showers and ensure a change of shoes and clothes are required before going off-site to reduce transport of dust.

Agree monitoring locations with the Local Authority.

Where possible, commence baseline monitoring at least three months before phase begins.

Mitigation Measure

Put in place real-time dust and air quality pollutant monitors across the site and ensure they are checked regularly.

Site hoarding, barriers and scaffolding are kept clean.

Sheet, seal or damp down unavoidable stockpiles of excavated material held on site, where required.

Avoid double handling of material wherever reasonably practicable.

Operating Vehicle / Machinery and Sustainable Travel

Ensure all non-road mobile machinery (NRMM) comply with the standards set within this guidance.

Ensure all vehicles switch off engines when stationary – no idling vehicles.

Avoid the use of diesel or petrol powered generators and use mains electricity or battery powered equipment where possible.

Impose and signpost a maximum-speed-limit of 10mph on surfaced haul routes and work areas (if long haul routes are required these speeds may be increased with suitable additional control measures provided, subject to the approval of the nominated undertaker and with the agreement of the local authority, where appropriate).

Produce a Construction Logistics Plan to manage the sustainable delivery of goods and materials.

Implement a Travel Plan that supports and encourages sustainable travel (public transport, cycling, walking, and car-sharing).

Loading of material into lorries within designated bay.

Plant working on site to have exhausts positioned such that the risk of re-suspension of ground dust is minimised (exhausts should preferably point upwards), where reasonably practicable.

All vehicles carrying loose or potentially dusty material to or from the site are fully sheeted.

Use low emission vehicles and plant fitted with catalysts, diesel particulate filters or similar devices.

Use ultra-low sulphur fuels in plant and vehicles.

Operations

Only use cutting, grinding or sawing equipment fitted or in conjunction with suitable dust suppression techniques such as water sprays or local extraction, e.g. suitable local exhaust ventilation systems.

Ensure an adequate water supply on the site for effective dust/particulate matter mitigation (using recycled water where possible).

Use enclosed chutes, conveyors and covered 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.

Ensure equipment is readily available on site to clean any dry spillages, and clean up spillages as soon as reasonably practicable after the event using wet cleaning methods.

Waste Management

Reuse and recycle waste to reduce dust from waste materials

Avoid bonfires and burning of waste materials.

Measures Specific to Demolition

Strip insides of the building before demolition of the structure and envelope.

Ensure water suppression is used during demolition operations.

Mitigation Measure

Measures Specific to Earthworks

Re-vegetate earthworks and exposed areas/soil stockpiles to stabilise surfaces.

Use Hessian, mulches or trackifiers where it is not possible to re-vegetate or cover with topsoil.

Only remove secure covers in small areas during work and not all at once.

Measures Specific to Trackout

Regularly use a water-assisted dust sweeper on the access and local roads, as necessary, to remove any material tracked out of the site.

Avoid dry sweeping of large areas.

Ensure vehicles entering and leaving sites are securely covered to prevent escape of materials during transport.

Implement a wheel washing system (with rumble grids to dislodge accumulated dust and mud prior to leaving the site where reasonably practicable).
