

TECHNICAL NOTE IN RESPECT OF BEST PRACTICE MITIGATION OF DUST

1. Introduction

This Technical Note identifies the mitigation measures which will be implemented on the construction site at 156 West End Lane and ACCON confirm that the identification of the mitigation measures are in line with ‘*The control of dust and emissions during construction and demolition - supplementary planning guidance - Appendix 7: Air Quality Control*’ as published in 2014 by the Mayor of London. The proposed mitigation measures are identified where appropriate to the scale of the site recognising that the implementation of the measures will for the greater part reduce the residual risk to low. The assumption is that without the mitigation measures in place the site would be of medium risk and for some aspects could be considered of high risk.

Table 1: MEASURES RELEVANT FOR DEMOLITION, EARTHWORKS, CONSTRUCTION AND TRACK- OUT

PROPOSED MITIGATION MEASURE	MEDIUM RISK	HIGH RISK
Develop and implement a stakeholder communications plan that includes community engagement before work commences on site.	YES	YES
Develop a Dust Management Plan.	YES	YES
Display the name and contact details of person(s) accountable for air quality pollutant emissions and dust issues on the site boundary.	YES	YES
Display the head or regional office contact information.	YES	YES
Record and respond to all dust and air quality pollutant emissions complaints.	YES	YES
Make a complaints log available to the Local Authority when requested asked.	YES	YES
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.	YES	YES
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.	YES	YES

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.	YES	YES
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MITIGATION MEASURE	MEDIUM RISK	HIGH RISK
Hold regular liaison meetings with other high risk construction sites within 500m of the site boundary, to ensure plans are co-ordinated and dust and particulate matter emissions are minimised.	X	YES
Plan site layout: machinery and dust causing activities should be located away from receptors wherever possible.	YES	YES
Erect solid screens or barriers around dust activities or the site boundary that are, at least, as high as any stockpiles on site.	YES	YES
Fully enclose site or specific operations where there is a high potential for dust production and the site is active for an extensive period.	YES	YES
Install green walls, screens or other green infrastructure to minimise the impact of dust and pollution.	X	X
Avoid site runoff of water or mud.	YES	YES
Keep site fencing, barriers and scaffolding clean using wet methods.	YES	YES
Remove materials from site as soon as possible.	YES	YES
Cover, seed or fence stockpiles to prevent wind whipping.	N/A	N/A
Carry out regular dust soiling checks of buildings within 100m of site boundary and cleaning to be offered if necessary.	X	YES
Agree monitoring locations with the Local Authority.	YES	YES
Where possible, commence baseline monitoring at least three months before construction phase begins.	YES	YES

MITIGATION MEASURE	MEDIUM RISK	HIGH RISK
Put in place real-time dust and air quality pollutant monitoring across the site and ensure they are checked regularly.	YES	YES
Ensure all on-road vehicles comply with the requirements of the London Low Emission Zone.	YES	YES
Ensure all non-road mobile machinery (NRMM) comply with the standards set within this guidance.	YES	YES
Ensure all vehicles switch off engines when stationary – no idling vehicles.	YES	YES
Avoid the use of diesel or petrol powered generators and use mains electricity or battery powered equipment where possible.	YES	YES
Impose and signpost a maximum-speed-limit of 10mph on surfaced haul routes and work areas	X	YES
Produce a Construction Logistics Plan to manage the sustainable delivery of goods and materials.	X	YES
Implement a Travel Plan that supports and encourages sustainable travel (public transport, cycling, walking, and car-sharing).	X	YES
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.	YES	YES

MITIGATION MEASURE	MEDIUM RISK	HIGH RISK
Ensure an adequate water supply on the site for effective dust/particulate matter mitigation (using recycled water where possible).	YES	YES
Use enclosed chutes, conveyors and covered skips.	YES	YES
Minimise drop heights from conveyors, loading shovels, hoppers and other loading or handling equipment and use fine water sprays on such equipment wherever appropriate.	YES	YES
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.	YES	YES
Reuse and recycle waste to reduce dust from waste materials	YES	YES
Avoid bonfires and burning of waste materials.	YES	YES

MEASURES SPECIFIC TO DEMOLITION

MITIGATION MEASURE	MEDIUM RISK	HIGH RISK
Soft strip inside buildings before demolition (retaining walls and windows in the rest of the building where possible, to provide a screen against dust).	X	YES
Ensure water suppression is used during demolition operations.	YES	YES
Avoid explosive blasting, using appropriate manual or mechanical alternatives.	YES	YES
Bag and remove any biological debris or damp down such material before demolition.	YES	YES

MEASURES SPECIFIC TO EARTHWORKS

MITIGATION MEASURE	MEDIUM RISK	HIGH RISK
Re-vegetate earthworks and exposed areas/soil stockpiles to stabilise surfaces.	X	YES
Only remove secure covers in small areas during work and not all at once.	X	YES

MEASURES SPECIFIC TO CONSTRUCTION

MITIGATION MEASURE	MEDIUM RISK	HIGH RISK
Avoid scabbling (roughening of concrete surfaces) if possible	X	YES
Ensure sand and other aggregates are stored in bunded areas and are not allowed to dry out, unless this is required for a particular process, in which case ensure that appropriate additional control measures are in place	YES	YES
Ensure bulk cement and other fine powder materials are delivered in enclosed tankers and stored in silos with suitable emission control systems to prevent escape of material and overfilling during delivery.	X	YES
For smaller supplies of fine powder materials ensure bags are sealed after use and stored appropriately to prevent dust.	X	X

MEASURES SPECIFIC TO TRACKOUT

MITIGATION MEASURE	MEDIUM RISK	HIGH RISK
Regularly use a water-assisted dust sweeper on the access and local roads, as necessary, to remove any material tracked out of the site.	YES	YES
Avoid dry sweeping of large areas.	YES	YES
Ensure vehicles entering and leaving sites are securely covered to prevent escape of materials during transport.	YES	YES
Record all inspections of haul routes and any subsequent action in a site log book.	YES	YES
Install hard surfaced haul routes, which are regularly damped down with fixed or mobile sprinkler systems and regularly cleaned.	YES	YES
Inspect haul routes for integrity and instigate necessary repairs to the surface as soon as reasonably practicable;	YES	YES
Implement a wheel washing system (with rumble grids to dislodge accumulated dust and mud prior to leaving the site where reasonably practicable).	YES	YES
Ensure there is an adequate area of hard surfaced road between the wheel wash facility and the site exit, wherever site size and layout permits.	YES	YES
Access gates to be located at least 10m from receptors where possible.	YES	YES
Apply dust suppressants to locations where a large volume of vehicles enter and exit the construction site	X	YES

YES - Highly Recommended X - Desirable

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