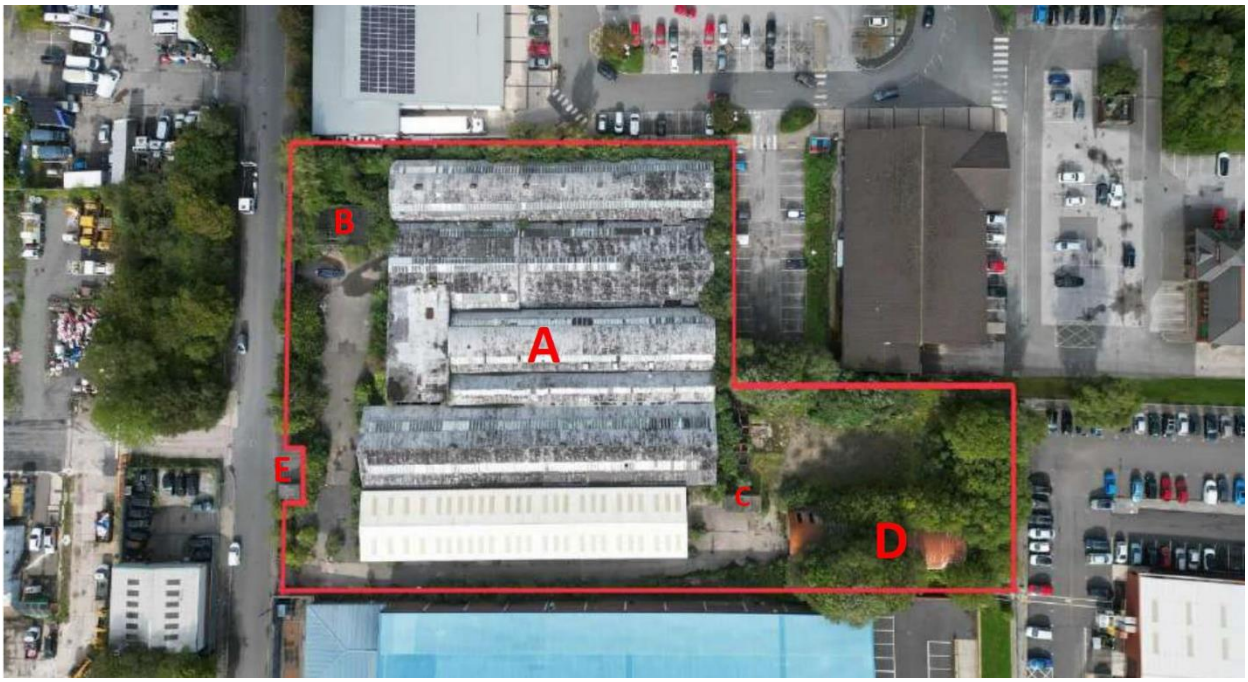
DEMOLITION
SERVICES LIMITED

Dust Risk Assessment

And

Hazard Management Plan

For all associated demolition works



Crabtree Lane, Clayton
MANCHESTER
M11 4GU

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PROJECT DETAILS

Introduction

This Dust Assessment and Management Plan is provided in order to illustrate the operational approach and procedures proposed for the site enabling and demolition works to demonstrate that they are to be carried out in a safe, controlled and documented manner such that the site remains fully compliant with relevant permits, legislation and planning conditions at all times.

This plan has been prepared on behalf of Demolition Services Limited (DSL), acting as principal contractors for the works

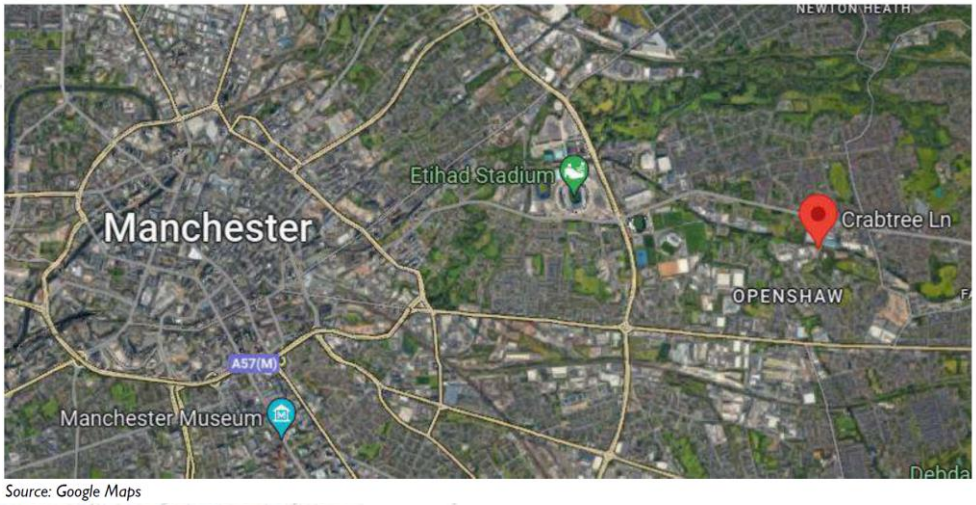
Site Location

The site is located on Crabtree Lane, Clayton, Manchester. The postal address for the site is;

- Crabtree Lane, Clayton, Manchester, M11 4GU

The property fronts Crabtree Lane, which is accessed off Ashton New Road. The property sits 2.95 miles east of Manchester city centre and close to the Croft Street Triangle area of the Eastlands Regeneration Area. Eastlands includes Manchester City Football Club's Etihad campus and stadium, and the forthcoming £365m Co-Op Live entertainment venue.

The immediate area comprises a variety of uses, with a small, primarily roadside retail scheme fronting Ashton New Road (Aldi, Subway, Greggs, Home Bargains, and Iceland), a dense residential catchment and some industrial uses Sonoco Consumer Products and a car garage opposite the property, Elcometer directly adjacent to the subject and a Lyndon SGB on Claytonbrook Road.



Source: Google Maps

Overview of the Works

The scope of demolition works required at the industrial park includes for the demolition of a number of large warehouse buildings, office buildings and general stores following the removal of any asbestos containing materials and or hazardous material identified prior to demolition.

The primary buildings on the site comprise 5 parallel industrial bays of varying age and construction.
To the front of these units is a two-storey office block. Externally the buildings are brick and metal sheet built and internally lined with concrete, plaster and plasterboard.

There are two standalone brick built structures – one to the front of the premises and the other to the rear. These buildings feature flat roofs with timber doors.

To the south east corner of the site, a metal clad building is provided with an open front and barrel vault roof.

Site Boundary

The demolition works will be contained within the following red line boundary.



Duration of Works

The demolition works, including all enabling works are anticipated to be completed within 12 weeks.

The start date has not yet been confirmed however it is expected to be within the first quarter of 2023.

Operational Hours

Demolition and demolition activities and deliveries to site shall be restricted to: -

- 0800-1800 hours Monday to Friday
- 0800-1300 hours on Saturdays

With no demolition or demolition activities on Sundays and Bank Holidays unless otherwise agreed in writing by the Local Planning Authority.

No other site operations, including delivery of materials, plant and equipment shall be carried out outside of these hours unless of an exceptional nature.

DUST MANAGEMENT

Introduction

This document presents a qualitative assessment of the potential impacts of dust and dirt associated with the demolition works at Crabtree lane, Clayton.

The document describes the site context and reviews obligations for dust and dirt control. Mitigation measures to minimise the generation of dust are described for on-site activities during the demolition phase of this project.

Dust Nuisance

Dust and dirt generated through demolition activities have the potential to cause nuisance to nearby properties, unless appropriate mitigation measures are undertaken.

The potential for dust nuisance depends on a number of factors such as

- The nature, size and number of sources of dust,
- The prevailing climate (wind speed, direction and rainfall)
- Effectiveness of dust suppression measures,
- The location and nature of potentially sensitive areas.

During demolition, there is potential for dust to be generated from various activities including, but not limited to:

- Vehicle movements over haul roads,
- Vehicle movements over bare earth in dry weather
- Demolition of buildings
- Crushing and Screening
- Using stockpiles, storage mounds and skips

Dust from these activities may be generated and transported beyond the site boundary in smaller or greater amounts depending primarily on the wind speed and direction, moisture content of material and its physical properties such as particle size and friability.

The sensitive receptors in close proximity to the demolition site (within 150m) comprise of both residential housing and mixed use industrial buildings.

Dust Control Methods

The potential for dust generation can be significantly reduced by the adoption of appropriate preventative measures to control dust emissions both on and off site. A series of control measures are presented in this section for implementation by the appointed contractors and include responsibilities for monitoring and reporting. A simple hierarchy will be utilsed to control emissions of dust and other emissions of which is shown below



Appropriate measures shall be implemented at all times during the demolition works, to minimise any dust emissions. During all operations, the risk of dust release will be continually assessed, and appropriate mitigation measures will be put in place. This is typically a bowser with hose attachment to wet down and suppress dust, although other alternative techniques may be considered as necessary.

Site Working Conditions

Demolition Services shall provide suitable and adequate dust suppression equipment such as road sweeper/bowser/dust boss on the site on a full-time basis for the duration of the demolition activities. The equipment shall be used for the dampening of the surfaces of dust sources as required.

All dusty materials shall be sprayed with water immediately prior to any loading, unloading or transfer operations, so as to keep the materials damp.

Demolition Services although contracted to crush all suitable hardcore material for future re-use by Harworth we will keep large stockpiles of waste material on site to a minimum. Any stockpile of dusty materials will be either covered entirely by impervious sheeting or placed in an area sheltered on the top and the three sides, or sprayed with water so as to keep the entire surface wet. The height of the stockpiles shall not exceed 8 metres.

Adequate dust controls shall be employed when carrying out crushing activities and always in accordance with any licensing conditions.

Control of Demolition Vehicles

All onsite roads shall be maintained for the duration of their use to minimise any build-up of mud, loose spoil etc.

Mobile water bowsers and sprayers shall be made available to dampen unpaved haul roads and working areas. An adequate supply of clean water shall be maintained on site at all times to allow dust suppression activities to be carried out at short notice.

Traffic both entering and working on the site shall obey a maximum speed limit of 10 mph.

Regular road sweeping will be carried out on site where this is deemed necessary, in order to minimise the potential dust generation and mud transfer off site.

Regular inspections of the public highway adjacent to the site entrance shall be carried out by Demolition Services. If deemed necessary, the highway shall also be swept regularly to remove any mud, slurry or dust deposited by vehicles entering or departing the site. If the Contractor considers that significant amounts of any detritus have been deposited on the public highway then operations shall be temporarily suspended until appropriate cleaning operations have been undertaken.

Any wagons that are to be used for the haulage of potentially contaminated material from the site shall be sheeted to prevent the release of dust.

Demolition Services shall as a final control, where all other controls are deemed ill effective, install and maintain a minimal water consumption automated vehicle washing system, ensuring that, where appropriate, vehicles are washed to remove any dust or debris from the body and wheels prior to leaving the Site.

Demolition Activities

The hierarchy of risk controls again will be applied to all demolition activities to determine the opportunity for eliminating, reducing, isolating and controlling any residual dust generated from our works.

Demolition work, particularly the demolition of brick and concrete, will generate dust – especially during periods of dry weather. This dust generation can be controlled by wetting of the surfaces being demolished. Demolition Services Ltd operatives will use hoses to spray water, onto brickwork and debris, during the demolition/loading operations when conditions demand.

Dust Monitoring

All personnel will visually monitor the local environment as a matter of course, reporting any abnormal dusty conditions to their supervisor, where upon the working area will be reviewed and suitable and sufficient control measures can be introduced, e.g. damping down etc.

Nonetheless, designated monitoring stations will be established in conjunctions with the noise monitoring stations to ensure that meaningful data is collected which will include a description of the works being carried out during each monitoring event.

At each monitoring station DSL will employ the use of a direct reading digital portable monitoring device, namely a Casella Microdust Pro or similar, to monitor for PM_{10} dust emissions from the project.

The monitoring equipment will be "check" calibrated prior to each monitoring session by the user and calibrated annually by an external company.

Monitoring shall take place at three locations on site. The Monitoring positions will be assessed by the site manager taking into account working areas, wind direction, and precipitation. Spot samples of 15 minutes will be taken at each monitoring position once per day.

Dynamic Action Level

The contractor will apply best practice guidance, and set a PM_{10} action level of 250µg/m^3 over a 15 minute average with regard to human health criteria dust monitoring.

Action Required:

1. All demolition operations to cease while additional measures are implemented to reduce dust emissions to below the action level.
2. A site investigation to be undertaken to determine the source of the exceedance.
3. Work methods to be reviewed, where required, to prevent a reoccurrence.

Conclusion

Dust generation can almost always be controlled by wetting of the surfaces being demolished or material being handled. Demolition Services Ltd will implement a combination of control measures including the use of dust cannons, localised use of hoses to spray water, onto brickwork and debris, during the demolition/loading operations when conditions demand and via direct water connection via the excavator attachment for suppression at source.

Dry areas of the works will be kept damped down to prevent the spread of airborne dust.

Haul roads shall be swept regularly as required in order to minimise dust generation from mud and debris deposited on road.

All vehicles carrying materials to and from the site shall be securely sheeted before commencing their journey.

Speed limits for vehicles on unmade surfaces shall be enforced to minimise dust generation and dispersion. Dusty materials shall be stored away from site boundaries and in appropriate containment (e.g. sheeting).

Such control measures are implemented having assessed the site as a medium impact.

Dust monitoring stations will be identified on site and following baseline air quality levels being determined; daily monitoring will be carried out at each point. Where levels were reported to have exceeded permitted levels, works on site will cease and following further assessment and implementation of controls will works be permitted to continue.

DSL continues to commit itself to minimising exposure to its operatives as well as the impact of its works to those outside of its site boundary.

Finally we can summarise by looking at the air impact risk assessment for demolition works as a management tool and identifier of control measures to be adopted.

Air

Environmental Aspects	Environmental Impacts	Control Measures
Dust from plant and traffic movement generally on and off site **Dust from crushing activities** **Dust from explosive demolition works** **Dust from cutting, breaking, munching and pulverising concrete** **Poor handling and storage of materials i.e. stock piling sand spoil and aggregates without covers.** **Dust generation from the transport of materials to and from site.** **Loading and unloading of dust generating materials.** **Fumes from plant and vehicles.** **Fumes from the use of solvents, glues and paints.**	Reduction of local air quality, mail odours and visual impairment leading to neighbour annoyance and complaints. Alteration or deterioration of plant and animal communities. Constraints and cost and/or programme of project from unacceptable levels of dust Cross contamination of surface water and soils. Creation of low level ozone. Contribution to global warming	**Haul Routes** Use existing roads on site wherever possible Avoid the use of 'mud tracks' Use of Road Sweepers to clean and remove dust and dirt from roads both inside the site and on the public highway. Limit vehicle speeds. Use of a water suppression truck to damp road **Plant** Use wheel washes. Exhausts not to discharge directly to ground levels. **Materials handling, storage and transportation** Store materials out of the wind. Cover all dust generating materials (transported on and off site and stored) with tarpaulin. Compact and bind stockpile surfaces. Use water to dampen materials both prior to and during loading to eliminate dust becoming airborne. Crushing operations to be ceased in excessive dry windy conditions when dust generation cannot be sufficiently contained. The burning of any waste is strictly prohibited on site. **Cutting, grinding, breaking and munching of concrete** Minimise cutting and grinding on site Damp down dust generating areas. **Corrective** Erect screens to act as windbreaks or dust screens. Use of Local exhaust ventilation where fumes are present or created inside of any building or space. **Air Monitoring** Asbestos Removal works will be done so under controlled conditions (use of NPU) and supported by background air monitoring. Further visual monitoring will be carried out daily to ensure no issues are raised and to ensure control measure are suitable and sufficient in reducing impact.