

DUST MANAGEMENT PLAN

FOR

**FORMER FARMSTEAD
BIG GREEN FARM
ELLESMERE LANE
PENLEY
WREXHAM
LL13 0LP**

BOWER EDLESTON
A R C H I T E C T S

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1. INTRODUCTION

The project relates to the demolition works that are to be carried out at Big Green Farm, Penley, Wrexham, LL13 0LP.

The works of the buildings to be demolished are as follows:

- a) Service Disconnections.
- b) There is no asbestos evident or suspected on site and therefore it is not proposed to carry out Pre Demolition and Refurbishment; however, if any potential asbestos containing materials are suspected/found within the buildings, structures and sub floor structures, a suitably approved licensed Asbestos Removal Contractor will be contacted and all works suspended until the attendance of such a person.
- c) Form site compound, set up welfare facilities, muster points and secure the site to be demolished, install protective measures within the existing site surface water drainage system to prevent contamination during the demolition process.
- d) Carry out internal soft strip of the buildings, to remove deleterious materials.
- e) Hand and Mechanical of existing former farm buildings.
- f) All surplus materials arising from the works will be transported off site for recycling/disposal.

SITE STAFF

The applicant and own staff will undertake the demolition.

PLANT & EQUIPMENT

- 1 x no. 10t excavator fitted with bucket attachment.
- Mobile elevating work platform ("scissor lift").
- 1 x skip for general waste.
- 1 x Toilet with hand wash facilities.
- Various hand tools.
- Plant certificates will be obtained for all plant used and copies of the certificates retained on site.
- All operators are to produce CPCS licenses.

Works described below will be carried out in such a way as to minimise the impact of that work:

- Take all reasonable steps to minimise the creation of dust, using water sprays to dampen buildings being demolished and the demolition arisings;
- Pay attention to wind direction so as to anticipate the impact of any work downwind of the working area;

- Curtail, suspend or re-arrange work as necessary to allow the demolition to proceed if possible whilst reducing its impact on any the occupiers of neighbouring properties/premises;
- Ensure all plant is fit for its purpose and adequately maintained so that noise generation is within the manufacturer's stated maximum noise level;
- Give particular consideration to activity on site at the start of the day to minimise disturbance of the neighbours. Reversing manoeuvres will be avoided in the early morning to prevent reversing sirens sounding. Mobile plant, which requires approximately 20 minutes idling to warm-up before a shift, will be parked sensibly away from houses. A super-silenced generator is being used to provide electrical power to the site compound. Any particularly noisy operations (e.g. use of hydraulic breakers) will be programmed to minimise disturbance.

2. WELFARE ACCOMMODATION:

- Welfare facilities will be provided to a standard that satisfies the HSE:
 - a) Toilets.
 - b) Washing facilities.
 - c) Drinking water.
 - d) Changing rooms and lockers.
 - e) Heating.
 - f) Rest facilities.
- The actual location of the welfare facilities together with staff/visitor parking will be identified and agreed on site.
- The Provision of site accommodation will be compliant with respect to the Construction (Design & Management) Regulations 2015.
- First Aid:

Refer to the onsite safety notice board for all first aid information.

A first aid box with enough equipment to cope with the number of workers on site should be provided for by the client or principal contractor.

The client or principal contractor should nominate an appointed person to take care of first-aid arrangements.

The number of appointed first aiders shall be dependent on the number of employees.

- Emergency procedures:

The client or principal contractor will ensure that the existing site emergency procedures are followed and that relevant information is given to operatives at time of induction or when changes are made to procedures.

The closest hospital is:

Wrexham Maelor Hospital
Croesnewydd Road

Wrexham
LL13 7TD
Tel: 01978 291100

3. WORKING HOURS:

08.00 a.m – 18.30 p.m. Monday – Friday.

08.00 a.m. – 16.00 p.m. Saturday

No working hours on Sunday.

4. SERVICES

- The client will make arrangements for the disconnection of the services to the buildings.
- The Contractor will maintain a temporary water and electrical supply during the works.
- A CAT detector will be used by the site supervisor to test for live underground electric cables prior to commencement on site and highlighted using spray marker.
- The water supplies will be used for fine mist sprays to reduce dust emissions during the works at work faces; drop zones and loading generally.

5. SAFETY:

All necessary registers, accident books, diary, time book, test certificates, method statement, risk assessment, health and safety plan etc., will be kept on site under the control of the Site Supervisor and can be inspected at any time. All accidents are to be reported to and entered in the site accident book.

A supply of spare hard hats, overalls, gloves, goggles, masks, welders' gloves, face visors (when burning equipment is used) etc., will be stored on Site.

At all times the appointed demolition contractor will ensure a high standard of Health and Safety is carried out at all times on site.

All operatives on site must wear full PPE in accordance with HSE requirements including safety boots, hard hats and a high visibility vests or coat and LEP (Light Eye Protection) as standard.

"No smoking on site" policy will be adhered to at all times.

Adequate segregation of pedestrians and vehicular traffic will be maintained at all times. Reversing of vehicles and plant will be minimised at all times. This will be highlighted on a site plan and will form part of the site induction for all operatives.

6. OPERATION NO 1: SITE ESTABLISHMENT

The building will be situated within a secure site boundary made up of Heras fencing, to enclose the working areas/exclusion zones within the site.

Warning signs (as described below) will be displayed at the appropriate points around the perimeter of the site:

- Danger Demolition in Progress
- Danger Demolition Keep Out
- Personal Protective Equipment requirements
- Warning to Children

All visitors to our site will be asked to sign in within the site office. They will be inducted into the activities being carried out that day and at all times whilst they are on site they will wear the required PPE and they will also be escorted by a member of staff.

7. OPERATION NO. 2: ASBESTOS REMOVAL

Where asbestos is found onsite, a suitably approved licensed Asbestos Removal Contractor will be appointed to carry out the removal of all asbestos containing products.

The HSE will be notified under the statutory ASB5 form on the Health and Safety Executive website www.hse.gov.uk of the intended asbestos removals that are to be executed on site.

All method statements, Risk Assessments and transit plans will be included within the Construction Stage Health and Safety Plan.

No follow on activities will be carried out until we have received air clearance certificates/certificates of re-occupation from the asbestos removal supervisor to confirm that the areas are safe to enter.

8. OPERATION NO. 3: CABLE STRIPPING

Any electrical cabling will be removed for recycling prior to soft stripping and the demolition of the structure.

No cable-stripping work will commence until the electrical supplies to the site have been irreversibly isolated either to the main distribution board by the local electricity supply company or from the main distribution board by a suitably qualified electrician. In either case an isolation certificate will be required and will be displayed within the site office.

Demolition operatives using hand tools will cut into manageable sections all exposed electrical cabling and any which are easily extracted but which are not exposed. Operatives are to exercise their judgement and experience when handling cut sections of cable to minimise the risks associated with manual handling.

Any circular saws used must be inspected daily and used only by trained operatives.

The removal of cable insulation and armour is to be undertaken using a purpose-built machine. Such machines have a number of safety features such as guards and remote emergency stops. All safety features are to be checked on a daily basis. None of the guards or other safety features are to be defeated or over-ridden. As with all machinery, long hair and loose clothing are to be securely tied-back to reduce the risk of the operator becoming entangled in the equipment.

All waste generated by the cable-stripping is to be disposed of appropriately, i.e. sheathing is to be placed in a general waste skip.

Under no circumstances is the sheathing to any cabling to be removed by burning.

9. OPERATION NO. 4: SOFT STRIPPING

An internal soft strip of the buildings will be carried out by demolition operatives to remove as much of the waste materials from the building ahead of the demolition works.

Materials that are to be removed by the internal soft strip can include doors, door frames, fixed and non-fixed furniture, carpets and floor coverings and other materials which obstruct the construction of asbestos removal enclosures.

Operatives will strip out all doors, frames, windows, timber of any description, (not appertaining to roof or main structure) pipe work, ducting, electrical items and any debris.

Any clean, unpainted constructional timber will be segregated from the general waste. Where this material is free of nails, screws, hinges etc., it will be segregated for recycling by a specialist company. Any materials deemed as not suitable for recycling will be removed from site in skips as controlled waste to an appropriately licensed landfill site.

Where possible the materials will be loaded by hand method into skips and removed from the site. Where access for skips is not available the materials will be segregated and stored within the building where they will be removed at a later stage.

Once access for skips is available the materials will be loaded into the skips by use of the excavator and by hand method.

At no times shall operatives gain access to partially demolished or unsafe buildings to recover soft stripped materials, these materials will be removed by mechanical means and when safe to do so by hand method.

All soft stripped materials will be processed and segregated into individual waste/recycling streams. All materials deemed suitable for recycling will be loaded into suitable skips and transferred from the site to a suitable recycling venue.

All waste materials unsuitable for recycling will be transported from the site where it will be taken to landfill facilities.

No burning of waste materials on site.

10. OPERATION NO 5: WORKING AT HEIGHT GENERALLY

Working at height will be restricted to a minimum, with the majority of high level demolitions being carried out by hand to allow for removal of cement fibre or metal sheets.

The main area where working at height will be carried out will be to remove the roof and walls that have been deemed accessible. All non-asbestos roof and walling will be removed by hand.

Where access to work at height may be required access will be gained by use of either Cherry Picker or Scissor Lift type Mobile Elevated Work Platform.

11. OPERATION NO. 6: DEMOLITION OF BUILDINGS GENERALLY

The buildings to be demolished on site are a mixture of traditional brick masonry type structure covered in roof tiles and steel portal frame with metal sheet cladding on rails over block plinth; timber frame buildings and large area of concrete stockyard.

Prior to any structural demolitions taking place, the site supervisor and plant operatives will walk the building to familiarise themselves with the building and any potential issues.

The site will be enclosed by use of heras type fencing. Warning signs will also be displayed on the site boundary in clear and visible positions.

The buildings that are to be demolished will be soft stripped as described above.

Mechanical excavations will be used to demolish and bulldoze the structure.

The 10t excavator with bucket type attachment will remove all surplus spoil material and will then be re-loaded mechanically into suitable sized skips and transported from the site for disposal.

12. OPERATION NO 7: PREVENTION OF POLLUTANTS ENTERING SURFACE WATER COURSE

Prior to the removal of the roof structure it is proposed to seal all drainage/surface water gullies surrounding the perimeter of the structure.

13. OPERATION NO. 8: DUST MANAGEMENT

The site management team, will ultimately be responsible for dust suppression on the site. All Site Managers will have attended a SMSTS training course on site safety. Part of the course deals with the issue of protecting the workforce against environmental impacts, one of which is fugitive dust.

The site manager will be present during all working hours to manage the activity of dust suppression. Vehicle movements will be kept to a minimum. If dust appears from identified sources, the site team will suppress the dust where possible. Environmental Incidents will be recorded in an incident book on site and records forwarded to the Contract Administrator as required.

The Construction Phase Safety, Health and Environmental Plan will monitor, report and audit environmental standards. This information will be made available to the public upon request to the main contractor's head office and also within the site manager's compound on site throughout the duration of the development.

To minimise the nuisance of dust generated by the construction operations the following operational constraints will be implemented:

- Haul routes to be located away from sensitive areas, if possible.
- Regularly sweep to prevent a build-up of dust and debris
- Ensure that all dust generating materials transported to and from site are covered by tarpaulins,
- Traffic speed on site to be lowered to prevent the generation of dust.
- Construction methods will be reviewed to limit the generation of dust i.e. wet cutting in lieu of dry cutting where practicable.

- Control of dust to be implemented on site by the use of a water bowser unit to dampen site access and haul roads.
- Plant and equipment to be selected to minimise the generation of dust
- Dust migration to adjoining properties to be restricted by the use of debris netting fixed to all the perimeter fences.
- Store materials as far away as possible from sensitive boundaries, whenever possible.
- During very dry conditions, consideration would be given to suspension of soil handling operations if wind speeds give rise to dust generation that could cause a nuisance to dust sensitive locations in the vicinity of the site, particularly during dry and windy conditions.
- Being aware of the impact of dust creating operations is key to good dust management. Having good communications, including on-site inductions, toolbox talks, notices, site briefings to staff etc. are therefore essential.

RECEPTORS

The nearest residential property is sited approx. 7 metres from the works and under the same ownership of the Client.

Under separate ownership the nearest property is approx. 20 metres from the works.

The access drive passes between existing properties adjoins Ellesemere Lane to the East of the works.

Agricultural fields and open countryside adjoin to the North South and West of the works.

The nearest buildings are of robust traditional form of construction.

PROTECTION OF TREES

No protected trees or tree protection zones have been identified.

DUST CONTROL MEASURES

Fine water spray techniques to be deployed to keep the dust to a minimum. Apply additional water dust suppression during dry weather. Avoid dust generating work on high wind days. The wheels of vehicles leaving site will be cleaned using a high pressure jet wash.

The following mitigation measures will be considered to minimise dust and other emissions from site activities and disruption or nuisance to neighbouring occupiers:

- Spraying water at work faces, loading operations and site access roads;
- Dampening of exposed soil and stockpiles if necessary;
- The location of stockpiles of brick, concrete, soil and other materials away from dusts sensitive properties,
- Regular inspection and cleaning of local highways and site boundaries for dust deposits;
- Loading of material into lorries within designated bays/areas;
- Sheeting of lorries leaving site carrying loose deconstruction material;
- No unauthorised burning of any materials on site;

- All site personnel trained in best practice for dust control by regular Environmental Toolbox talks.
- Use of plant and vehicles that are in good repair and conform to the manufacturer or legislative/British Standard emission standards. Plant maintenance and defect reports shall be held on site in designated file. Wherever possible, plant shall not be left running for long periods when not directly in use. Where appropriate electrically powered machinery and plant shall be used instead of petrol or diesel powered.
- Monitoring site perimeter

MONITORING

Dust

Dust readings will be taken in response to complaints and also in the event of exceedance of visible dust level.

Site management will appoint a person responsible for taking monitoring using a Casella Micro Dust Pro equipment which measures dust in real time monitoring (mg/m³)

Results (Dust)

All results will be recorded on a suitable log sheet and a monitoring report, which will include times of day, duration of measurement and details of other relevant sources, together with site activities at the time of monitoring.

Prevailing weather conditions including wind speed shall also be recorded with each set of monitoring results.

The monitoring reports will be signed by the competent person undertaking the measurements and communication to the Project Manager.

Where the results of monitoring indicate that the action level limits are being exceeded at the identified monitoring locations, the Project Manager shall be notified and action taken as per the Action Levels/Incident Response below.

ACTION LEVELS

Dust

- Dust alarm trigger level PM₁₀ @ 50µg/m³ at elevation/boundary of adjacent dwelling
- Action Level – visible dust or above 0.150 mg/m³ when readings of these levels are recorded during random spot checks attended monitoring at any receptor point

INCIDENT RESPONSE

Incidents where action levels are exceeded will be responded to as follows:

- If during site activities action levels are exceeded this will be reported to the project manager and incident/occurrence recorded.
- The project management team will investigate the work being undertaken, to see if the correct plant and equipment is being used in accordance with the BPM.
- If the work, plant and equipment are not being used correctly the works will be stopped and corrective action taken.
- If high readings are being caused due to unforeseen circumstances and the correct methodology/plant and BPM is being carried out the local authority will be notified and the reasons and timescales explained.

- Further monitoring will be carried out following the corrective action to ensure works proceed within the action levels,

Record of any such incident and action taken are to be kept on site filing system and communicated to involved parties.

Incidents where complaints are received:

- All complaints received will be recorded, in a site complaints book retained in the site office, investigated, and any corrective action implemented and feedback given to the complainant.
- The local authority will be advised of any complaint and actions taken to investigate the validity and any actions which have been put in place to rectify the situation if this is found necessary. This may include local monitoring.

I acknowledge that I have read the Demolition Method Statement I am aware of its content and its applicability to my role and activities on site.

Name (Print)	Signature	Date	Company Name