

Construction Environmental Management Plan

Address: 20_106 – Mr Jake Wilshaw.

Project: New detached dwelling along with demolition of
structures and buildings.

1. Introduction

The purpose of this document is to outline and describe how the contractor will manage, and where possible, minimise the impact of the developer's construction upon the neighbouring buildings and residents. The contractor will be committed to achieving high environmental standards throughout the development period.

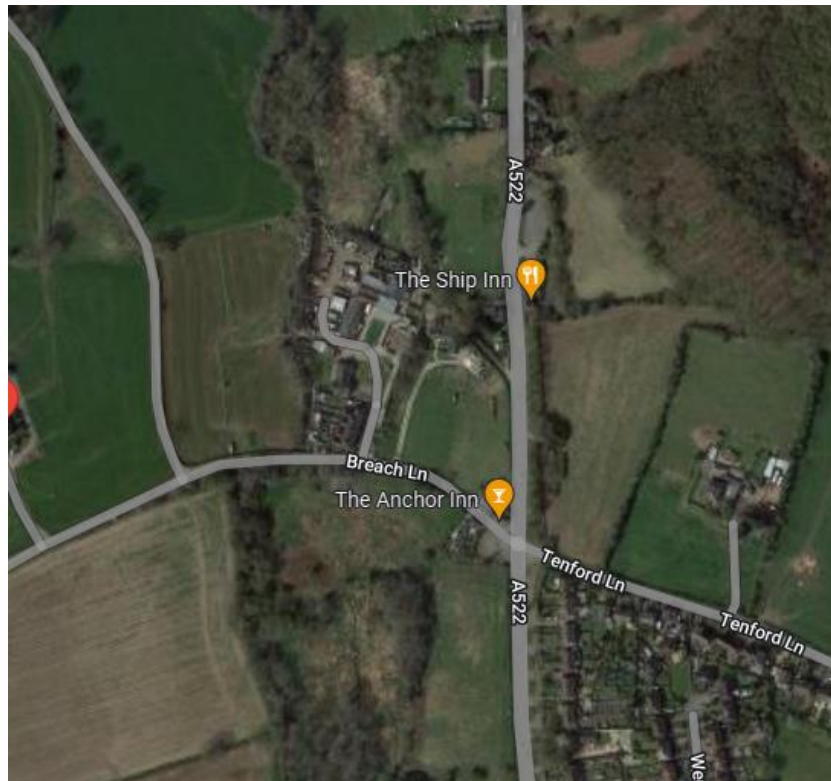
2. Public Notification

A letter drop will be carried out to all local residents. This will provide contact details should a local resident have any complaint or concerns. The letter will contain details of the contractor so that any resident who may not wish to liaise with site has a direct link with the contractor. Client details will also be included. The neighbouring premises are predominantly residential dwellings, and 1 public house. The area is rural and the properties immediately neighbouring are owned by the client and his family.

3. Site Description

The site is located at the end of a private driveway off Breach Lane. The development is comprised of the demolition of existing structures and buildings and the erection of a new detached dwelling.. The purpose of the CEMP is to manage and mitigate potential impacts of the building process on sensitive receptors surrounding the site including:

- Noise and vibration impacts on surrounding residential properties.
- Containing debris and mud within the site boundary for the benefit of the surrounding highways.
- Public safety.



4 Welfare Facilities / PPE

Adequate welfare facilities will be made available on site for all employees and sub-contractors prior to the commencement of any work.

The facilities will be expected to follow the guidelines as per the table to ensure the CDM Regulations 2015 are conformed to.

Sanitary Convenience	Separate provision for male and female personnel on the following basis.		
	No of persons on site.	No of WCs.	No of urinals.
	1-25	1	2
Washing Facilities	Hot and cold running water		
	Supplies of soap and towels/dryers		
	Wash basins, suitable for the immersion of the hand and forearm, on the basis of		
	No of persons on site.		No of wash basins.
	1-25		2
Drinking Water	- Freely available supply - Cups and beakers		
Accommodation for changing clothes	- Drying room/storage room for protective clothing - lockers		
Rest Room/Area	- Facilities for break times. Must be heated and provide shelter from weather elements. - Facilities for boiling water - Facilities for providing hot food.		

There are sufficient onsite facilities available for all workers to utilise. The surrounding properties are owned by the family and adequate welfare facilities will be made available in the nearest building.

Construction workers will wear appropriate PPE for the task being completed. The contractor and site manager will ensure that PPE is worn at all times on site and issue PPE if required.

5 Hours of Work

The working hours for all construction activity including site deliveries will be from 8.00am to 6.00pm Monday to Friday and 8.00am-1.00pm on a Saturday. There will be no construction activity undertaken on bank holidays or Sundays.

Currently, it is not envisaged that there will be any deviation away from the hours listed above. Should the need appear due to an unforeseen issue, the Site Manager will carry out a door-to-door knock of all local residences/commercial units and explain the reason why. If no contact can be made, a calling card with a note detailing a brief explanation and contact details will be posted through the vacant premises.

It is envisaged that the construction could take place during the winter months and as such, access lighting may be required. Should construction lighting be required at any point, this will be highlighted during a risk assessment and lighting baffles if needed will be integrated.

6. Piling Works

Pile driving works are expected on site and with regards to the piling of foundations, a Piling Risk Assessment will be carried out prior to the works and recommendations to protect the aquifers will be incorporated into the Construction Method Statement.

The methodology of this risk assessment will be followed during the project.

Noise and vibration effects will be minimised as far as reasonably practicable and piling works will be carried out between the hours of 9.00am – 4.00pm Monday to Friday only with regular reviews of noise and vibration carried out during the works to ensure where possible that noise and vibration effects during these works are minimised. There will be no piling work undertaken on Saturdays, Sundays or Bank Holidays.

7. Parking areas for the vehicles of site operatives/personnel and visitors

An area will be made available for contractor parking. Construction related vehicles are not to park in resident spaces under any circumstances.

Due to the nature of the project it is anticipated that operatives will only need parking for vans and cars. Refuge areas off public roads will be available for deliveries to avoid large vehicles causing issues on public roads.

8. Public Footpath

Public right of way information has been consulted with Staffordshire County Council and there are no public footpaths or rights of way currently on the proposed site. The site will be made secure to protect members of the public, but no additional consideration is required in relation to this method statement.

9. Deliveries

Deliveries will be from rigid or articulated delivery vehicles only. Where possible, deliveries are to be between 9.30am and 3.00pm to avoid peak travel hours on the surrounding roads to avoid congestion and noise.

Before starting any unloading, all delivery drivers must report to the Site Manager. These times also apply to Contractor deliveries of equipment and plant. Plant and Materials will be stored on site in designated areas within the site only.

10. Storage, Loading and unloading of materials

There will be a designated area within the site compound for material storage only. Best practice approach of ordering materials Just In Time will be adopted wherever possible to reduce the amount of materials stored on site at any time.

Delivery vehicles will supply and remove materials from site using the driveway off Breach Lane.

If circumstances allow and to reduce vehicular movements, deliveries will be made direct to the work zone to mitigate double handling and double vehicular movements.

All materials will be loaded within the site compound/boundary of the working zone to minimise congestion.

Site Management are to be provided with examination certification for unloading machinery if required. Materials will be stored on site in designated areas.

11. Provision of Wheel Washing Facilities

To restrict the amount of debris carried out of site, the contractor will aim to clean down the site traffic vehicles as they leave site. This will be monitored by the site manager who will action cleaning down operations if deemed necessary. An order will be placed with a road sweeping contractor which the site manager will call in if needed.

Due to the location and topography of the site it is neither viable nor practical for a wheel wash to be utilised. Instead, before leaving site wheels will be cleaned off using a high pressure hose and at regular intervals the road will be mechanically swept by a subcontracted street sweeper.

12. Site security

The site will be surrounded by 'Heras' fence and close board fencing, accessed by padlocked vehicle gates. The fencing will house the appropriate decorative displays with site Health & Safety details and site contractor information.

13. Construction activities

Method statements and risk assessments will be created, considering impacts to the surrounding environment such as dust, dirt and noise, etc.

All construction works will be undertaken using appropriate suppression methods to minimise both the impact to the environment and the health and safety risks for the operatives on site.

Risk assessments will highlight possible high levels of noise for certain operations. If highlighted, construction baffles will be used to mitigate the disturbance to neighbouring residences and public.

Engines of all vehicles, mobile and fixed plant on site will not be left running unnecessarily.

Low emission vehicles and plant fitted with catalysts, diesel particulate filters or similar devices will be used, along with using ultra low sulphur fuels in plant and vehicles where possible.

A construction traffic co-ordinator will be appointed during the construction period to monitor heavy goods vehicle deliveries and collections of construction materials to and from the site to ensure compliance so far as practicable by contractors with the above requirements.

14. Dust

During dry periods dust suppression will be used on site to reduce possible nuisance dust. A number of methods will be used including :

- hose pipes to damp down works areas
- dust suppression equipment on disc cutters etc
- bowzers to damp down traffic routes.

A speed limit of 10mph is to be implemented on site and adhered to at all times.

Stockpiles of dusty materials shall be minimised and shall as far as possible be contained within silos or other appropriate arrangements. Soil stockpiles shall be profiled to minimise wind whipping and shall if left for any length of time be seeded or covered.

For environmental and road safety all materials containers leaving site will be appropriately covered to avoid soiling of the roads and highway.
The cutting of paving slabs, bricks, blocks and tiles shall only be undertaken with a wet saw or other suitable methods to minimise dust.

15. Waste Management

Throughout the development process best attempts will be made to reduce the amount of waste going to landfill and to maximise the use of recycling facilities and the opportunity to re-use materials. There will be no burning of waste materials permitted on site at any time. All waste materials will be disposed of in line with this Plan.

16 Hazardous Materials

Risk assessments for the control of substances hazardous to health regulations (COSHH), noise and environmental risks will be prepared and effectively monitored, reviewed and communicated on site

Oils and hazardous waste (if applicable) will be stored appropriately to minimise pollution risk including compulsory use of bunded fuel browsers, drip trays and spill kits on site

Full Asbestos Demolition surveys have been carried out by SB Asbestos Management Limited on the buildings (survey numbers S-01480 and S-01485 are attached in appendices). These surveys have identified no asbestos containing materials within the buildings and so no action is required on the existing buildings.

Whilst no ACM's have been identified should any suspect materials be found on site, work will cease and the material investigated by a specialist surveyor before work is allowed to continue and any appropriate action will be taken as advised.

A Phase 1 Ground investigation report has been carried out by Strata Renewables Ltd (survey findings and report reference SRL1319 attached in appendices). This report has found asbestos fibres and high levels of lead in the soil on site.

An asbestos risk assessment and working method statement will be prepared for the construction process and one of the following methods may be implemented on site during the period when the potentially contaminated sub-grade is exposed

- Appropriate dust suppression and appropriate PPE will be provided, or:
- A preparatory site formation may be adopted which could comprise of a capping laying or similar to allow construction plant to operate.

Further Investigation Reports are being carried out prior to commencement and these reports may state that additional or alternative safety measures are required and will form part of the Principal Contractor CEMP

If during construction any further unknown ground contamination is found, then construction will cease until full investigations have been carried out and remediation strategies agreed and implemented

17 Ecology

Construction activity will be controlled in a way which mitigates damage or destruction to animals and their habitats.

A bat roost survey was conducted by Ardea Ecology (report 276987 is attached in appendices). Whilst no bat roosts were found in the project buildings the demolition of parts close to building 10 will be undertaken during the period when bats are less likely to be present i.e. October to March

In order to reduce any impacts upon bats or nesting birds works should be undertaken wherever possible over the winter period and the lean-to building dismantling carried out in an orderly manner by first removing the steel roof cladding and then removing the steel joists. The walls the joists are attached to are solid and do not contain any cavities and the joints are well sealed with cement therefore bats are not likely to be roosting within these joint areas but more likely in the roof of the shed and therefore unlikely to be disturbed by the works.

Where work needs to be started outside of the suggested period, It is recommended that the ecologist be on site in advance of the works to carry out an inspection to ensure no nesting birds or bats are present. Should any bats be found all works should cease until advice has been sought from the ecologist.

18 Health & Safety

To ensure continuity through site operations and the site rules that must be followed, all operatives on site will be inducted onto site. The development will be registered with external health & safety consultants.

19 Conclusions

This CEMP provides a comprehensive list of mitigation measures and monitoring procedures for the demolition and construction phase of the Proposed Development. At this stage it includes mitigation measures committed to as a result of the Environmental Impact Assessment work. However, it is a 'live' document and will be updated regularly as more information on the Proposed Development becomes available.

20 Appendices

S-01480 Outbuildings Asbestos Report
S-01485 Old Mill Building Asbestos Report
SRL1319 Ground Investigation Report
SRL1319 Phase 1 Contamination Assessment
276987 Bat Roost Survey