

Construction Environmental Management Plan

Land Off Selman Drive, Falfield

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H O M E S

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Objectives

Section 1

- 1.1 This Construction Environmental Management Plan (CEMP) seeks to provide the detail of the practices and procedures which will be in place during the construction of the proposed development to ensure that the environment and those involved or impacted by the development are protected. This therefore not only covers the environment in terms of the general impact of the construction on the construction staff, the amenity of adjacent neighbours, the local community and the local highway network, but also the ecological impact on flora and fauna.
- 1.2 The proposals have separately been supported by technical assessments on such issues as ecology and arboriculture amongst others. This CEMP does not seek to repeat the findings of those reports but rather, it seeks to draw best practice procedure for the construction process, setting out a management plan to ensure the identified potential impacts are mitigated.
- 1.3 The objectives of this CEMP are therefore as follows:
- To provide and maintain a safe and healthy place of work with safe systems of working practices and appropriate guidance.
 - Not to endanger employees or other persons as a result of our work activities.
 - To provide all employees with the information, instruction, training and supervision to enable them to carry out their tasks safely.
 - To provide and maintain for all employees adequate and suitable facilities for their health and welfare.
 - To develop a culture which encourages staff and operatives to work in a manner that will prevent accidents.
 - To provide Contractors, and others who may be affected by the work activity, with the necessary information, instruction and supervision and, to check their training/suitability to carry out the works.
 - To cover the management of all construction activities by defining the requirements and standards that need to be met.

- Ensure that the works are carried out and site managed in accordance with planning approval and wildlife legislation, and ensure the delivery of the proposed ecological enhancements in order to maximise the potential for gains on site.

Construction Environmental Management Plan

Section 2

2.1 Construction has wide ranging impacts on the environment, as set out within the previous section this is not only in regards to the impact on the natural environment, but also on the construction staff, local neighbours, local community, the local highway network and flora and fauna. This section looks to consider the impact and procedures to be put in place in order to protect the staff, local community and local highway network, touching on elements of the natural environment. Ecological impacts and procedures are then covered in the following section in greater detail.

Site Set up and Logistics

2.2 It is not standard to have a Construction Management Layout Plan compiled at this stage, rather it is something which is developed and finalised once a layout is fixed and is close to or has received planning permission. This is in large part due to the consultation responses which are received during the application process which may have implications for how certain elements of the construction site are designed (location of compound based on ecological considerations or location of construction access based on highways responses for example). A Construction Management Layout Plan will however be compiled prior to commencement on site and circulated to all those involved in the construction. The Construction Management Layout Plan will address the following items:

- The location of tree protection fencing and security fencing
- The location of the construction access(es)
- The location of a temporary construction compound constructed within the site which will contain a site management office, welfare facilities (with a mains water supply) and a First Aid Station.
- The location of an area within the compound provided for vehicle parking, for the Site Manager and visitors and all sub-contractors working on the site. No parking will be permitted within the live construction area of the site.

- There will also be areas within the compound designated for secure material storage, waste management and for loading/unloading of plant and materials. The loading/unloading of plant and materials will not be carried out from the adjacent road.
- The part completed road layout will be provided with an area for vehicles to turn around within the site and leave the site onto Lodge Road in a forward direction to ensure that reversing out is not required.
- Safe routes for pedestrians with crossing points will be provided on the site, which will be demarked with barriers to segregate them from routes used by the construction vehicles. Whilst a separate public right of way temporary diversion order will be obtained, the plan will also include details of this diversion
- Fire Points and an Assembly Point will also be provided within the site.

Construction Management Measures

2.3 The following measures and procedures will be in place on site to minimise the risks to potential harm on the environment and those living, working and moving through the vicinity:

- Cotswold Homes and all the contractors working on the site will comply in all respects with the Waste Duty of care Code of Practice 2016 during the course of construction, including the requirements as a Waste Holder.
- Any restrictions on the routing of delivery vehicles will be agreed with the Local Authority in advance of the works commencing on site.
- Signing and protective barriers will be installed on adjacent roads when works are being carried out to form any new access/footway and drainage works to inform and protect pedestrians, cyclists and those on horseback. The roads will be kept open at all times unless agreed otherwise with the Local Authority due to Safety reasons.
- Dust generation will be prevented by using enclosed processes, screening/covering of skips and material storage areas and by the provision and maintenance of hard surfaces. However, during periods of dry weather, water suppression may need to be used on hard surfaces and material stockpiles. A dust management plan will be created and those working on site will be fully briefed on the procedures contained within it.
- During periods of wet weather, wheel and vehicle washing prior to leaving the site will be required to control the migration of mud onto the adjacent roads. This will be carried out near the entrance to the site with vehicles sited on a hardstanding or area of clean stone.

- As soon as one is available, there will be an electricity supply onsite which will avoid the use of diesel generators, removing the potential for noise and air quality issues.
- All workers on the site will be made aware of the need to keep noise to a minimum from general building work, equipment, plant, machinery, vehicles, radios and loud voices.
- The hours of working will be restricted to between 7.30 to 18.00 hours Monday to Friday and 8.00 to 13.00 hours on Saturday with no working on Sunday, Bank or Public Holidays. Should work need to be undertaken outside of these hours, it will only be done so following prior written agreement with the Local Planning Authority. Should emergency works be needed outside of these working hours to address a health and safety hazard, this will be permissible subject to the Local Planning Authority being informed as soon as reasonably practicable.
- Mitigation measures as defined in BS 5528: Parts 1 and 2: 2009 Noise and Vibration Control on Construction and Open Sites shall be used to minimise noise disturbance from the construction works
- All works and ancillary operations which are audible at the site boundary, or at such other place as may be agreed with the Local Planning Authority, will be carried out only between the hours detailed above unless otherwise agreed with the Local Planning Authority in writing.
- Deliveries on to and removal of plant, equipment, machinery and waste from the site will only take place within the permitted hours detailed above
- Any lighting required for safe working or security will be the lowest intensity to be able perform the required function and will be angled away from existing adjacent properties. Further detail on this given in the following ecological section.
- The Site Manager will be the point of contact for keeping residents informed and to deal with any concerns or complaints.
- The Site Manager will also inform the Local Authority for any emergency requirement to deviate from the permitted working hours.
- The Site Manager will be responsible for arranging the undertaking of site inductions, toolbox talks and health and safety matters, as detailed later in this document.

Construction Ecological Specific Management Plan

Section 3

3.1 Ecological survey work and reporting has been compiled in support of these residential proposals; this report does not seek to repeat the findings of those reports here but to provide details on how the findings of that reporting will be considered and measures implemented to avoid any harm to flora and fauna during construction.

Risk Assessment

3.2 Whilst the ecological surveying did not pick up on a number of fauna and flora species, the following potentially damaging activities and their associated risk are considered under the scope of this CEMP as part of best practice:

Table 3.0: Construction Activity and Associated Risks

Activity	Risk
Tree Surgery Works	Disturbing, injuring or killing roosting bats, nesting Dormice, and nesting birds.
Clearance of Scrub	Risk of disturbing nesting birds, Dormice, reptiles and amphibians
Site Preparation and Ground Works	Disturbing, injuring or killing reptiles and amphibians
Open Excavations	Trapping of wildlife
General Construction Works and Storage of Materials	Risk of damaging retained habitats (hedges and trees).

Biodiversity Protection Zones

3.3 The retained hedges and trees are the only protection zones and as set out within the separate arboricultural report, these will be protected with tree protection fencing to the standards set out in that report. This tree protection fencing will be installed prior to commencement and

maintained on site throughout the construction. Signage will also be installed on the fencing to advise that it is not to be breached. It is expected that this will be conditioned.

- 3.4 Workers will be fully informed of the tree protection measures during the toolbox talk detailed in Section 4 of this CEMP.

Mammals

- 3.5 The following general measures would be implemented to protect mammals and other wildlife during the construction phase.

- Any trenches and other excavations would be back-filled before nightfall or a ramp left to allow animals to easily exit.
- Open pipes/ducts larger than 150mm would be capped off overnight

Bats

- 3.6 Precautionary measures with regard to bats are not required; however, in the case that minor tree surgery works are required or removal of trees with no potential for roosting bats is necessary the following procedures should be employed in the unlikely event a bat or bats are discovered:

- If the roost is still on the tree and bats are not injured, seek advice from a licensed ecologist. If help is not available, allow bats to fly out of harm's way.
- If the timber is felled, the roost is not exposed and the bats are not injured, temporarily seal and isolate the roost and seek advice from a licensed ecologist. If advice is not readily available, position the roost off the ground, re-open it and allow bats to relocate of their own accord.
- If the roost has been exposed, and especially if bats have been injured, collect bats in a secure box or bag (using a glove) and contact a licensed ecologist.
- Note the date, locality, type of tree, situation in tree and bat species if known

- 3.7 No tree surgery works will be carried out in regards to trees identified to have potential roosting features for bats prior to consultation with the Ecological Clerk of Works (ECoW) and subsequent further survey where necessary.

- 3.8 All works and ancillary operations shall be carried out within daylight hours only to avoid disturbance of foraging and commuting bats.

- 3.9 The use of security lighting during construction has the potential to disturb foraging and commuting bats as well as other wildlife. The intention is to avoid the use of security lighting but if becomes necessary then this will only be used when and where necessary and will avoid illuminating boundary hedges, trees etc. to minimise disturbance to foraging and commuting bats. This will be achieved by utilising highly directional LED PIR lighting with the use of shielding.
- 3.10 Further details on the implementation, consideration and management of impacts relating to lighting in the operational phase of the development is expected to be required through a lighting plan to be discharged by condition of any planning permission.

Dormice

- 3.11 The hedgerows and scrub provide suitable Dormouse habitat although no surveys have confirmed their presence. The habitat to be removed is minimal, and limited to narrow bands of scrub which will result in only a minor reduction of potential habitat and not cause any significant fragmentation. In the absence of any survey information to confirm presence, a precautionary approach is deemed appropriate as follows:
- Works would ideally take place between April and October to avoid the sensitive hibernation period; however, hibernation potential is limited and as such the overseeing of works by the ECoW will be sufficient for works undertaken at any time of year.
 - In the event and nests or Dormice are found to be present, works will cease and the need for additional measures e.g. licensing, determined

Birds

- 3.12 Scrub clearance and any necessary maintenance of hedges or tree surgery works will avoid the bird nesting season of March to August inclusive so there will be no requirement to check the vegetation for nesting birds prior to works. In the event of changes to the schedule that require any of these works to take place during nesting season, pre-works nesting bird surveys would be carried out by the ECoW within 24 hours prior to works. Any discovered nests will be left undisturbed until the young have fledged by implementing exclusion zones around nest, the size of which will be determined by the ECoW taking into account the species and nature of the surrounding habitats. The ECoW will determine when the young have fledged and the nest is no longer in use.

Reptiles

3.13 Notwithstanding the findings of the ecological survey work, the site provides habitat in the narrow areas of scrub and boundary hedgerows. Works to clear scrub habitats and remove the debris would therefore be carried out in accordance with the following precautionary method of working for reptiles.

- All clearance works should be undertaken when common reptiles are likely to be fully active i.e. during the April to September period. Works over the winter period are possible, but will be subject to additional detailed ground checks prior to work commencing.
- Clearance of tall vegetation should be undertaken using a strimmer or brush cutter with all cuttings raked and removed the same day.
- Should any common reptiles be discovered during construction, which are likely to be affected by the development, works should cease immediately. The site manager should then seek the advice of a suitably qualified and experienced ecologist and works should only proceed in accordance with the advice they provide.
- Any trenches left overnight should be covered or provided with ramps to prevent common reptiles (and other animals) from becoming trapped.
- Any discovered reptiles should be moved to areas of the development where vegetation extends away from the site.

Amphibians

3.14 Notwithstanding the findings of the ecological surveying, the site provides limited amphibian habitat in the form of dense and scattered scrub and hedges. The risk of harm to Great Crested Newts will be minimal when following precautionary methods of working for amphibians as follows:

- Species of amphibians, including Great Crested Newts could be found on site throughout the construction phase although any potential is minimal. Any discovered newts would be removed to a log pile in the corner of the site. Any contractors on site will then be advised to carry out all remaining work with care and vigilance for these species. Should any Great Crested Newts be found during works, then works will cease and a licensed Ecologist will be instructed to relocate the newt before works continue.
- A licensed newt worker will not be required day to day and instead all contractors will be briefed on the identification of amphibians. Any discovered common amphibians will be

captured and relocated away from the area of works to a location where it can seek cover until it relocates on its own accord.

- Works will be restricted to the designated development area and the impact of works on adjacent habitats avoided by the clear demarcation of the works area.
- The duration of any groundworks, should be kept as short as possible and any trenches left overnight should be covered or provided with ramps to prevent amphibians (and other animals) from becoming trapped.
- Works will be undertaken during daylight hours when Great Crested Newts are less active and are less likely to occupy the grassland and tall ruderal habitat identified for works.
- Any debris, spoil collected during site clearance should be removed from the site immediately to avoid it becoming used as refugia by amphibians and reptiles. Any building materials should be stored on pallets where possible to prevent them being used as cover.

Responsibilities and Mechanisms for Delivery

Section 4

- 4.1 This section gives further detail on the responsibilities and mechanisms for the delivery of the requirements set out within this management plan.

Responsible Persons and Line of Communication

- 4.2 An Ecological Clerk of Works (ECoW) will be appointed. The ECoW will be an experienced ecologist. They will be responsible for delivering the pre-commencement toolbox talk, which will highlight the constraints on site, details of exclusion/protection zones, identification of species, and what to do in the event any of any discoveries during the works, and the purpose of the CEMP. The EcoW will also carry out any pre-works checks of habitats; nesting bird surveys and supervision works as required.

Management Responsibilities

- 4.3 The implementation of this management plan will be the responsibility of Cotswold Homes who will instruct the strict adherence to this plan, with the available resources, as well as with assistance from area specialists where necessary to ensure that all measures are executed using best possible practice. All appointed sub-contractors will be approved as competent and knowledgeable in their position

Local Community Responsibility

- 4.4 The Site Manager will manage and co-ordinate on-site environmental activities and act as a point of contact for local residents. Liaison between the Construction Contractor and local residents will seek to ensure that any concerns are resolved quickly and efficiently.
- 4.5 The Site Manager will be responsible for briefing the CEMP to construction staff; fulfilling environmental obligations on site; attending to any on-site environmental incidents or concerns.

Tool Box Talk

4.6 The proposed works have the potential to negatively impact on a number of ecological receptors. An ECoW will be appointed to undertake the following:

- Tool Box Talk to be provided prior to the start of works outlining the purpose the CEMP, precautionary methods of works and details of works to be supervised.
- Carry out nesting bird survey of any nesting habitats (vegetation) to be removed during nesting season in the event that this is required.