



**GRAINGER PLC  
CONSTRUCTION ENVIRONMENTAL  
MANAGEMENT PLAN  
TOWN PARK PHASE A BEREWOOD,  
WATERLOOVILLE, HAMPSHIRE**

**CONDITION 11 CEMP REQUIREMENTS**

**MAY 2014**



**the journey is the reward**

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WATERLOOVILLE, HAMPSHIRE**

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**MAY 2014**

|                      |                        |
|----------------------|------------------------|
| <b>Project Code:</b> | <b>GTWVILLET.P.9</b>   |
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**GRAINGER PLC**  
**CONSTRUCTION ENVIRONMENTAL MANAGEMENT PLAN**  
**TOWN PARK PHASE A BEREWOOD, WATERLOOVILLE, HAMPSHIRE**  
**CONDITION 11 CEMP REQUIREMENTS**

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## 1 Introduction

1.1 The open space to be provided within the Phase 2 residential development area of Berewood, includes the southern part of the Town Park known as 'Phase A'. This is subject to a Reserved Matters Application and as such condition 11 of the Winchester City Council Decision applies.

1.2 The following condition 11 states:

"No development within a reserved matters area shall take place until a Construction Environmental Management Plan (CEMP) which should be in accordance with the ecological mitigation measures set out in Environmental Statement and the ecological mitigation plan submitted for that Reserved Matters Application, has been submitted for each particular reserved matters application, and approved by the Local Planning Authority, to include details of:

- i. construction traffic routes in the local area;
- ii. parking and turning of operative, construction and visitor vehicles;
- iii. loading and unloading of plant and materials;
- iv. piling techniques;
- v. storage of plant and materials;
- vi. programme of works (including measures for traffic management);
- vii. all deliveries and building works which should only be carried out between the hours of 0800 and 1800 hours Monday to Friday and 0800 and 1300 hours Saturday and no time on Sundays or recognised public holidays;
- viii. provision of boundary hoarding and lighting including construction lighting;
- ix. protection of trees, hedgerows and other natural features to be retained including their management until such time as they are adopted;
- x. details of proposed means of dust suppression and noise mitigation;
- xi. measures to protect the listed building as necessary;
- xii. details of measures to be taken to prevent mud from vehicles leaving the site during construction;
- xiii. measures to prevent pollution of the watercourse during construction;
- xiv. the handling and management of construction waste;

- xv details of surface water runoff; and
- Xvi construction lighting.”

- 1.3 A detailed Construction Environmental Management Plan (CEMP) has been produced and approved for the Phase 2 infrastructure works at the Berewood site. It is this intention that this CEMP is a continuation of the infrastructure CEMP and will include for the specific RMA condition set out above.

## 2 Condition 11 Requirements

- 2.1 The following sets out how these requirements have been achieved for the Town Park Phase A application, where they are applicable:

### Requirement

#### i. construction traffic routes in the local area

##### Response

*"A Construction Traffic Routing Plan was produced to control the traffic impacts of the Phase 2 infrastructure works. The Town Park works traffic will access the site via Milk Lane and as such the Phase 2 routing plan will still apply. The Construction Traffic Routing Plan is reproduced here in Appendix A."*

### Requirement

- ii. parking and turning of operative, construction and visitor vehicles
- iii. loading and unloading of plant and material

##### Response

*"The site compound will be located at Plant Farm and an example of a typical compound layout including the minimum facilities required is included in Appendix B. This demonstrates suitable space for the parking and turning of operative and visitor vehicles, and the loading and unloading of plant and material".*

### Requirement

#### iv. piling techniques

##### Response

*"No piling works are anticipated as part of the construction works for the Town Park Phase A."*

## Requirement

### **v. storage of plant and materials**

#### Response

*“As above (ii, iii) a plan of a typical example site compound layout is included in Appendix B. This demonstrates suggested locations for the storage of plant and materials. All materials will be stored in accordance with the requirements of Phase 2 Infrastructure CEMP within Appendix A (reproduced here in Appendix C – Section 3 specifically). Measures are also set out within the Phase 2 Infrastructure CEMP Mitigations Matrix in Section 5, as set out below:*

- *Where any pesticide use is required, refer to the strict requirements for notification of relevant bodies, secure storage, transportation, use and competences required, as set out in the Landscape Maintenance and Management Plan;*
- *All materials and spoil to be stored on site to be sheeted or damped down as appropriate in dry weather to reduce dust.;*
- *Stockpiling to be in accordance with best practice as in PPG6 or equivalent;*
- *Stockpiles of materials not suitable for on-site re-use to be removed as soon as is practicable in accordance with applicable waste management legislation;*
- *Fuels and chemicals to be stored in accordance with PPGs 1,2,7. or equivalent;*
- *All tanks and containers to be labelled with nature of contents and total volume secured;*

- *Storage and delivery facilities to be on impermeable surface in a secondary containment system; use of bowsers to be restricted to relatively immobile plants;*

- *There is to be provision of spill kits at all storage areas & provision of emergency response numbers;*
- *All deliveries to be supervised and levels of tanks checked before delivery;*
- *Stockpiles to be sited so as not be subject to inundation during extreme rainfall events;*
- *Contingency plan required for temporary covering of stockpiles during adverse weather conditions;*
- *Sorted & screened material to be placed on a prepared clean granular surfacing;*

Requirement

**vi. Programme of works (including measures for traffic management);**

Response

*“An outline programme of works for the Town Park Phase A is included within ‘The Berewood Implementation Phased Area Strategy Phase 2’ and this is included in Appendix D. At this stage, measures for traffic management are not included. However, these will be provided within a more detailed programme of works to be submitted prior to commencement on site.”*

Requirement

- vii. all deliveries and building works which should only be carried out between the hours of 0800 and 1800 hours Monday to Friday and 0800 and 1300 hours Saturday and no time on Sundays or recognised public holidays.**

Response

*"This requirement is written into the Phase 2 Infrastructure CEMP within Appendix A (reproduced here in Appendix C) and within the Infrastructure CEMP Mitigation Matrix in Section 5."*

Requirement

- viii. provision of boundary hoarding and lighting including construction lighting**

Response

*"These requirements are written into the Phase 2 Infrastructure CEMP within Appendix A (reproduced here in Appendix C - Sections 2 and 5 respectively).*

*Construction works are not anticipated to take place within the hours of darkness. However, if construction site lighting is required, lights will be fitted with cowls and directed away from Newlands Row. Works will proceed in accordance with BS 5837:2012 Trees in Relation to Construction.*

*The location of site hoarding will be agreed with Havant Borough Council and Winchester Council before works commence on site. All existing site hoarding will be maintained until this time."*

Requirement

- ix. protection of trees, hedgerows and other natural features to be retained including their management until such time as they are adopted.**

Response

*"The protection and management of site ecology and other natural features until such time as they are adopted, will be undertaken in accordance with the Land Management Strategy produced by Fabrik (v6 May 2014) and the Town Park Phase A Protected Species Mitigation Advice Note\* produced by Biodiversity by Design (March 2014). Specific measures described in the advice note relate to:*

*"Fencing already exists between the Site and the hedge on the eastern side of the Site. Exclusion fencing would also be installed along the margins of the short section of hedgerow on the Site's northern boundary to protect both their above surface growth and root systems and minimise landscape works disturbance to hedgerow wildlife."*

*\*See Appendix E*

Requirement

- x. details of proposed means of dust suppression and noise mitigation.**

Response

*"These requirements are written into Appendix A of Phase 2 Infrastructure CEMP (reproduced here in Appendix C - Sections 3 and 2 respectively) and within the Infrastructure CEMP Mitigation Matrix in Section 5 as set out below:*

- Site roads to be swept and sprayed with water to prevent dust nuisance.
- Recycling activities that have the potential to generate dust (e.g. concrete crushers) to be sited in such a way to minimise dust nuisance to sensitive receptors.

- Activities found to be generating dust in conditions where dust being spread may affect the public to be stopped, rescheduled or mitigated.
- All supervisors to be familiar with the provisions of BRE Report 456: "Control of dust from construction and demolition activities"
- All plant to be fitted with diesel particulate filters.
- Site vehicles to be preferentially sought to have vertical exhausts to limit surface dust re-suspension.

- All vehicle drivers to be acquainted with agreed haulage routes selected to minimise any air quality impact arising from additional lorry movements.
- All supervisors to be familiar with provisions of BS5228, & advised on noise minimisation.
- Noise levels to be set at 75dB in the working week which will be between 0800 & 1800 on weekdays and 0900 & 1300 on Saturdays.

Silencers or mufflers as appropriate to be fitted to plant and machinery

*Any specific activity related measures will be discussed in site meetings and recorded within Method Statements and Action Plans."*

Requirement

**xi. Measures to protect the listed building as necessary**

Response

*"Listed buildings at Plant Farm will be protected in accordance with method statements to be agreed with Winchester and Havant Borough Council."*

Requirement

- xii. details of measures to be taken to prevent mud from vehicles leaving the site during construction.**

Response

*"These requirements are written into the Phase 2 Infrastructure CEMP within Appendix A and reproduce here in Appendix C (Section 3 specifically).*

*Measures are also included within the Infrastructure CEMP Mitigation Matrix in Section 5.*

- All vehicles leaving the site where necessary to be subjected to wheel washing*

*Any specific activity related measures will be discussed in site meetings and recorded within Method Statements and Action Plans."*

Requirement

- xiii. measures to prevent pollution of the watercourse during construction**

Response

*"These requirements are written into the Phase 2 Infrastructure CEMP within the Infrastructure CEMP Mitigation Matrix in Section 5 and include:*

- A system of temporary drainage to be installed to ensure that no polluted surface runoff enters the southern tributaries of the River Wallington. Any surface water collected to be directed via treatment before discharge;*
- Any existing surface water drains to be bunded to ensure that no surface water enters them."*

Requirement

**xiv. the handling and management of construction waste;**

Response

*"These requirements are written into the Phase 2 Infrastructure CEMP within Appendix A (reproduced here in Appendix C - Section 6 specifically)."*

Requirement

**xv. details of surface water runoff;**

Response

*"See response to requirement xiii."*

Requirement

**xvi. construction lighting.**

Response

*"See response to requirement viii."*

## **APPENDIX A: CONSTRUCTION TRAFFIC ROUTING PLAN**

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KEY:

- 2-WAY CONSTRUCTION TRAFFIC TO PHASE 2
- ROUTE AVAILABLE TO HOUSE BUILDING CONTRACTORS
- NO CONSTRUCTION TRAFFIC PERMITTED

Notes:

1. Purbrook village is a traffic sensitive location and it is a planning obligation that no construction traffic passes through Purbrook village. As such, construction traffic through Purbrook village is forbidden under the contract.

Berewood

HAMPSHIRE

PRELIMINARY NOT FOR CONSTRUCTION

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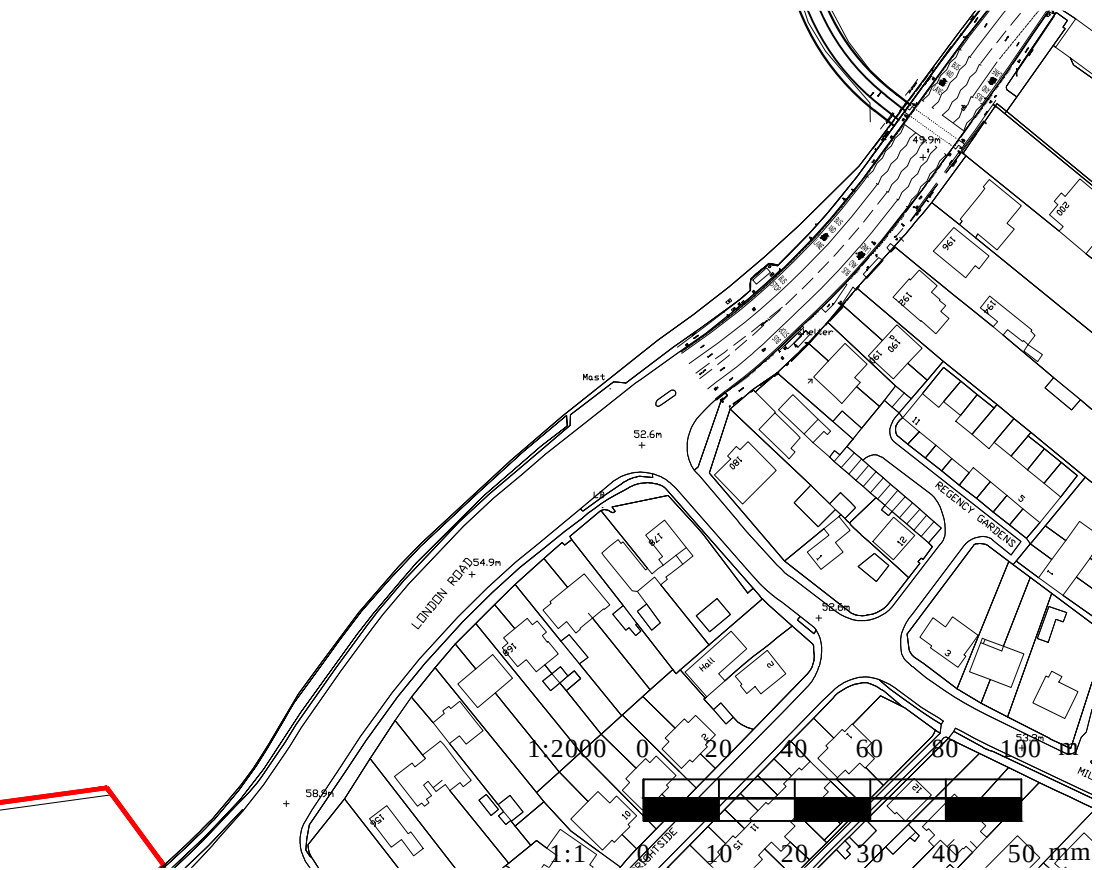
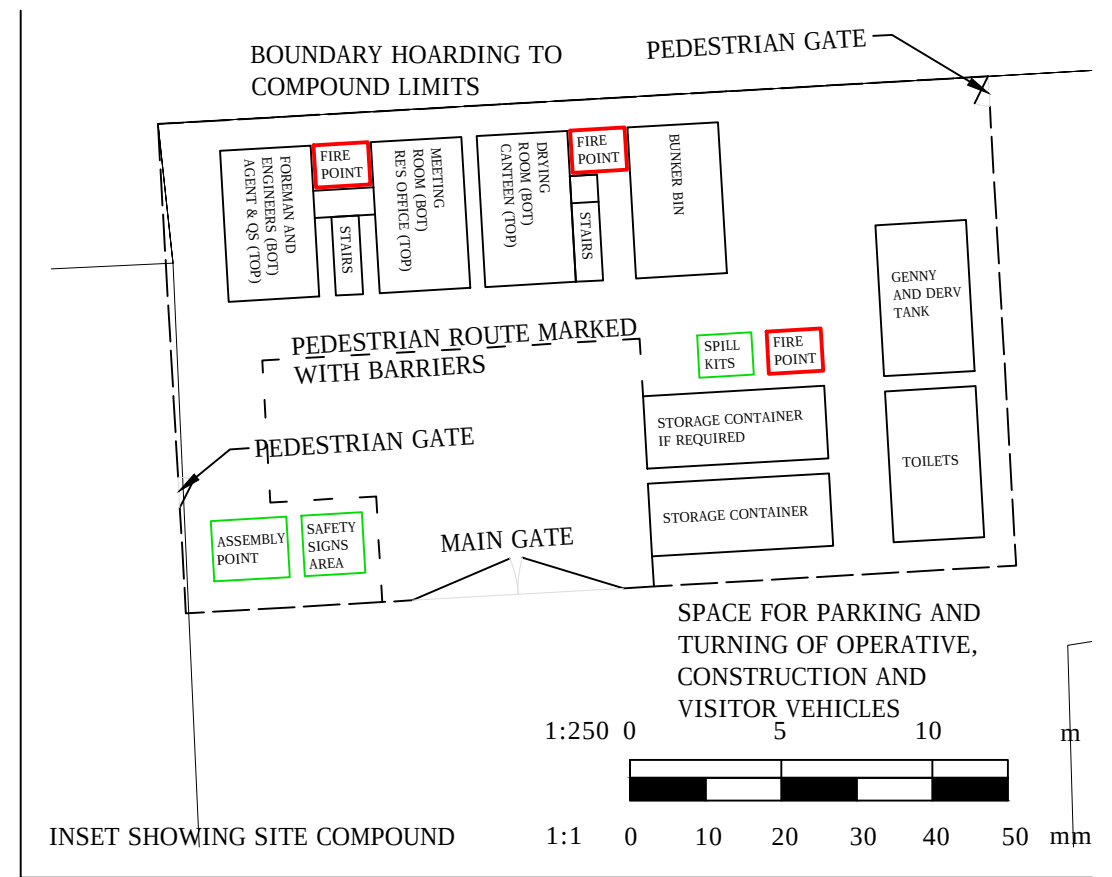
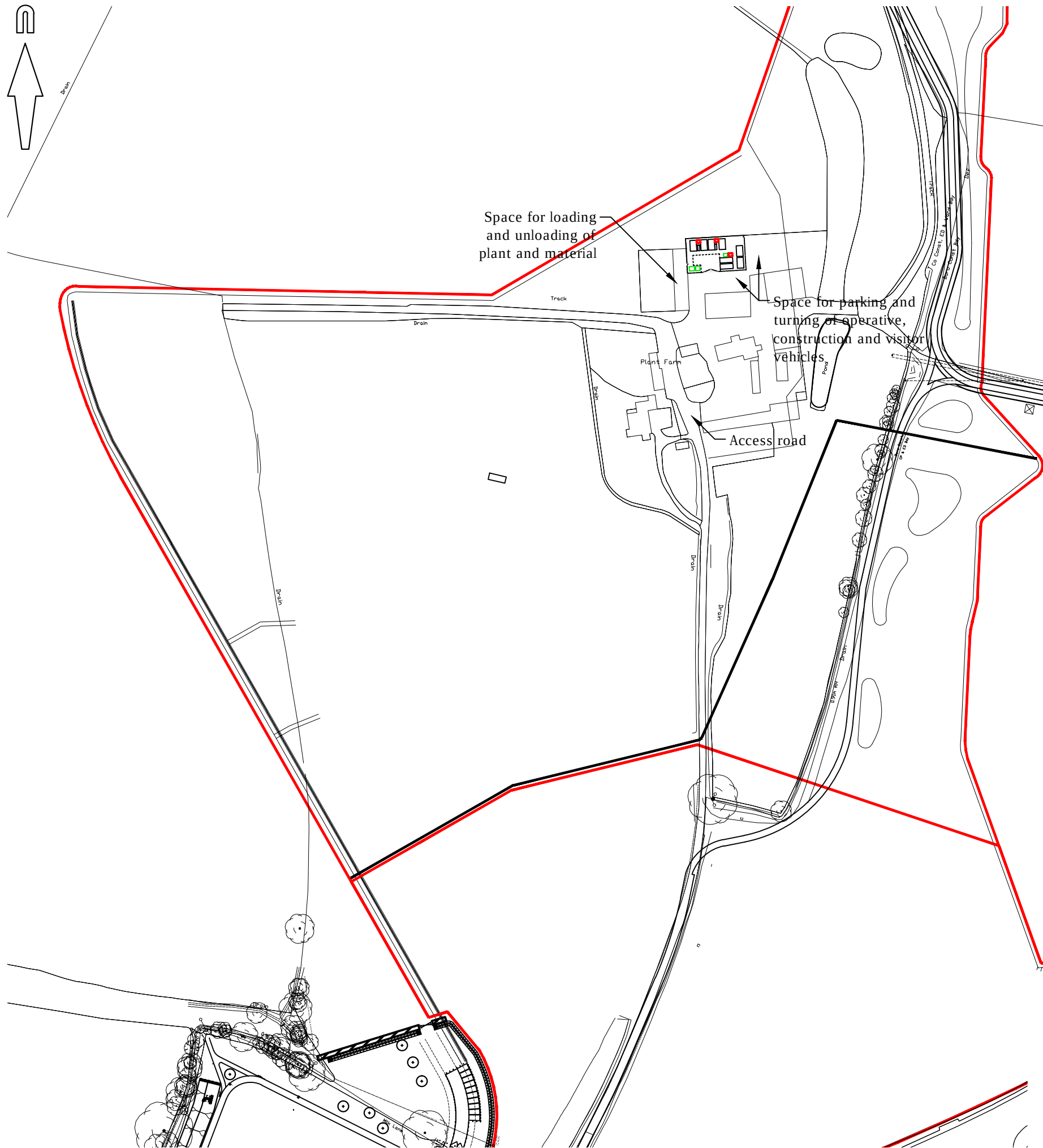
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BEREWOOD, WATERLOOVILLE  
PHASE 2 INFRASTRUCTURE

| scale | 1:1:10000                                            | drawn by | NT        | checked by | PAS |
|-------|------------------------------------------------------|----------|-----------|------------|-----|
| date  | JANUARY 2013                                         | cad file | TP_01.dwg |            |     |
| title | PHASE 2 INFRASTRUCTURE<br>CONSTRUCTION ROUTEING PLAN |          |           |            |     |

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## **APPENDIX B: LOCATION OF SITE COMPOUND AND EXAMPLE OF TYPICAL SITE COMPOUND LAYOUT**



## **APPENDIX C: APPROPRIATE SITE MANAGEMENT PRACTICES**

## **1. APPROPRIATE SITE MANAGEMENT PRACTICES**

- 1.1 All site works will be carried out using “best practicable means” (BPM) in order to comply with relevant legislation under the Environmental Protection Act 1990 and the Control of Pollution Act 1974 to prevent statutory nuisance.

- 1.2 The contractor will ensure that any construction lighting is appropriate for Health and Safety requirements and not intrusive to residents or sensitive site fauna.

Prior to any works that may have environmental impacts, the relevant Statutory Authorities will be consulted.

### **Monitoring**

- 1.3 Where local residents are likely to be affected, good practice working methods that minimise noise, dust, and air pollution impacts will be used at all times.
- 1.4 The effectiveness of all measures will be monitored frequently by the main contractor and Site Manager and reviewed at least weekly. Officers of the relevant Council departments may be consulted to ensure compliance with relevant legislation.

### **Publicity**

- 1.5 There will be regular liaison with local residents who may be affected by construction works. Local residents will be informed of the nature of works, proposed hours of work and their expected duration.
- 1.6 Communication with local residents will include publicity, including the name and telephone number of a main contact. The contact person will be able to give further information to the caller and deal with any complaints or emergencies that may arise periodically. The Council’s Environmental Health Department will be notified of any complaints made about the site.
- 1.7 A site notice board will be provided adjacent to the main site entrance at a point convenient for public access. This will display the following information:
- name, address and telephone number of the Contractor
  - out-of-hours contact number in case of emergency
  - description of site project
  - timetable of works
  - commitment to comply with the Council’s Code of Practice for site works

- statement that any work at anti-social hours shall be agreed in advance with the Council and communicated to residents by way of a letter drop
- Council contact number in case of complaints

## **Operation**

- 1.8 Where noise, dust and air pollution are likely to affect local residents the contractor shall be responsible for ensuring that:
- all plant and equipment, including any on hire, is checked to ensure it is in good working order and conforms to the manufacturers' standards. Equipment will be properly silenced and meet statutory emission standards;
  - effective methods of work are adopted to prevent dust from becoming airborne at source. As dust is harder to suppress once it has become airborne, careful consideration at the design stage will be required to deal with the enclosure of fixed plant, addition of moisture, or provision of effective exhaust ventilation and filtering;
  - measures are taken to protect listed buildings as necessary; and
  - prior to the commencement of site works, the workforce will be fully briefed on environmental standards on site through the provision of training. All staff will be made aware of the CEMP and Considerate Constructors Scheme and carry out work to the relevant standards.

## 2. NOISE MANAGEMENT AND CONTROL

- 2.1 Where residential occupiers are likely to be affected by noise, the hours of work will normally be restricted to the following:-

|                         |                                                                    |
|-------------------------|--------------------------------------------------------------------|
| Monday to Friday        | 08:00 hrs to 18:00 hrs                                             |
| Saturday                | 08:00 hrs to 13:00 hrs                                             |
| Saturday from 13:00 hrs | No work where noise is audible at the site boundary                |
| Sunday & Bank Holiday   | No work on site except by prior agreement with the local authority |

- 2.2 All vehicles and plant arriving at and leaving the site shall comply with the same restrictions on hours. Vehicles shall not be parked off-site in the vicinity outside these hours except in properly designated 'lay up' parking places. The main contractor and Site Manager will ensure that instruction is given to all drivers including those delivering materials or removing waste to and from the site.
- 2.3 Any work outside of the stipulated hours above will only be carried out on prior approval of the Havant Borough Council and Winchester Council Pollution Control Departments. Local residents will also be informed in advance of the proposed activity.

### Plant and Equipment

- 2.4 Noisy plant and equipment will be sited as far away as is practicable from sensitive receptors. The use of barriers, such as soil mounds, site huts, acoustic sheds and partitions to deflect noise away from noise sensitive areas will be employed wherever practicable. Rapid access to portable acoustic screens such as those specified in British Standard BS5228:1997:Part 1 will be provided.
- 2.5 Where necessary, site hoardings will be provided. These aid with egress of noise and dust. Hoarding may take the form of existing buildings, security hoards, or purpose built noise screens. Specific noise reduction hoarding is available where noise impact is a particular issue, or effective hoarding can be constructed on site from two sheets of 12mmmm board filled with a sound absorbing material such Rockwool.
- 2.6 Effective screening/hoarding must be appropriately sited between the noise source and the potential receptor, contain no holes and ensure that the screening material overlaps with minimal gaps.

- 2.7 Wherever practicable all plant and machinery will be powered by mains electricity in preference to locally powered sources such as diesel generators. Hand tools will be electrically powered rather than diesel or petrol driven where practicable.
- 2.8 All plant and machinery will comply with relevant statutory and manufactures' requirements. Vehicles and plant used for the purpose of the works will be fitted with effective exhaust silencers, maintained in good and efficient working order and operated to minimise noise emissions.
- 2.9 Machinery in intermittent use will be shut down in the intervening periods between work or throttled down to a minimum. Noise emitting equipment required to run continuously e.g. generators, will be housed in suitable noise reducing enclosures.
- 2.10 Where potentially noisy operations such as piling is required, the least intrusive method in terms of noise and vibration will be selected.
- 2.11 Only "sound reduced" compressors shall be used. Models will be fitted with properly lined and sealed acoustic covers that shall be kept closed whenever the machinery is in use.
- 2.12 Pneumatic percussive tools will be fitted with mufflers or silencers of the type recommended by the manufacturers. Equipment that breaks concrete, brickwork or masonry by bending or by bursting shall be used in preference to percussive tools as far as practicable.
- 2.13 Where practicable rotary drills bursters actuated by hydraulic, chemical or electrical power will be used for excavating hard or extrusive materials.
- 2.14 Plant will be maintained in good working order so that extraneous noise from mechanical vibration, creaking and squeaking is kept to a minimum.
- 2.15 Care will be taken when loading or unloading vehicles, or moving materials etc to reduce noise impact.

### **3. DUST MANAGEMENT AND CONTROL**

- 3.1 In assessing the need for dust control measures regard shall be paid to:
- the nature of works
  - proximity of dust sensitive receptors (e.g. houses, specific crops, utilities)
  - effects on the general public and road user
- 3.2 Where necessary methods of dust prevention will be agreed with the Pollution Control Department of Havant Borough Council and Winchester Council in advance of works starting on site.
- 3.3 A mains water supply will be available on site from commencement of works. Watering down of the area will be carried out whenever dry or windy conditions pose a risk of dust blowing off site, affecting neighbouring occupied properties.
- 3.4 The choice of plant and equipment and the method of work will reflect the necessity to employ “best practicable means” (BPM).
- 3.5 Where adequate dust control cannot be achieved by the choice of appropriate plant, equipment and work method the most common means of dust suppression using water and/or containment by screening and enclosure will be adopted.
- 3.6 Water suppression of dust will be employed for operations such as cutting or sandblasting of stone or concrete as well as in more general applications where dampening will prevent wind whipping of dust from stockpiles and operational areas of the site, or from demolition.
- 3.7 Where dust is likely to be a persistent problem water spray systems will be available from the commencement of works. The use of these systems will be applied in operations such as demolition and soil removal during construction.
- 3.8 Finely divided materials such as sand and cement products will be stored where practicable under cover or in sealed containers. In some circumstances screening or enclosure may be required in addition to water suppression.
- 3.9 As far as practical constraints will allow, obvious sources of dust such as spillages of finely divided materials will be removed using a wet cleaning technique.
- 3.10 The importance of cleaning will be applied to internal roads and the highway which may become coated with dust from other operations and can become a secondary source of dust emissions.

- 3.11 A speed limit will be applied to vehicles operating on the Site during dry conditions.
- 3.12 Easily cleaned hard-standing areas will be provided within the site for vehicles entering, parking and leaving.
- 3.13 Wheel washing facilities adjacent to the egress points used by vehicles leaving the site will be provided.
- 3.14 Personnel and mechanical road sweepers will be used to clean the hard-standing area and to clean any mud or debris deposited by works vehicles on internal roads and the public highway in the vicinity of the site.
- 3.15 All vehicles carrying potentially dusty materials (skips and removal vehicles) to or from the site will be required to be fully sheeted on the public highway. Watering of any rubble chutes shall be undertaken whenever necessary to prevent excessive dust emissions. Chutes will be fitted with a 'sock' enclosing the discharge into the skip or truck. Socks will be maintained in position at all times when the chutes are in use.
- 3.16 Any plant used for crushing of materials must have a permit, issued by the appropriate local authority under the Pollution Prevention and Control Regulations 2000 (prescribed processes). All works will be carried out in accordance with the conditions of such a permit. Plant used to recycle materials will require a permit/licence from the Environment Agency. The relevant Regulatory Authority will be notified prior to the equipment being brought on site.
- 3.17 Water bowsers will be provided for use in suppressing surface dust generated from unpaved roads or other sources during periods of dry weather, use of sprinklers and water carts, and re-vegetation of stockpiles will be applied where appropriate.
- 3.18 Materials and storage/stockpiling areas will be located away from sensitive locations, such as residential properties, as far as reasonably practicable. Stockpiles will be screened or bunded where practicable. Stockpiles of all potentially dusty materials shall be damped down or covered to prevent emissions of dust from the site. Stockpile sites will be planned, sited and profiled to minimise the potential for dust generation. Handling of material should be kept to a minimum and when deposited onto a stockpile it should be dropped from the minimum possible height.
- 3.19 Particularly dusty activities such as soil stripping will be carried out in suitable weather conditions when practical (i.e. when the ground is damp and during periods of low wind speed) to minimise dust impact on receptors.
- 3.20 Care will be taken to control dust arising from the waste or recycled materials being deposited, handled, processed and stored on the Site.

- 3.21 Monitoring of dust by means of a daily site walk-over will be carried out to inspect the perimeter and check for dust deposition on fencing and any trees close to the edge of the area of the site being worked on. A daily inspection of the local area will also be carried out to check for any evidence of excessive levels of dust deposition that may be a result of the construction site activities. This will confirm the effectiveness of adopted dust management procedures and allow any problems to be identified so that remedial action can be employed as necessary.
- 3.22 Operations will be monitored and if necessary stopped in particularly dry and windy weather conditions when the dust control measures are proving to be ineffective'.
- 3.23 Although dust will occur from site activities, this is likely to have a minimal and temporary impact on the surrounding environment if appropriate mitigation is applied. The use of best practice to control dust during construction activities is normally sufficient to avoid any unacceptable problems occurring. Provided the proposed dust management measures are properly implemented, dust will be controlled to an acceptable level.

#### **4. CONTROL OF SMOKE AND EMISSIONS**

- 4.1 Smoke can be considered to constitute a Statutory Nuisance under the Environmental Protection Act 1990 if it affects the occupiers of other properties. The emission of dark smoke from industrial or trading premises (including construction sites) constitutes an offence under the Clean Air Act 1993. The lighting of fires on site shall not be permitted and waste will be disposed of under the conditions set out in a Site Waste Management Plan (SWMP).
- 4.2 If timber has been confirmed diseased, burning of the material shall only occur after the local authority has been informed in writing and permission to burn on site has been granted.
- 4.3 All necessary precautions will be taken to prevent emissions of smoke and fumes from site plant / equipment or stored fuel oils. Plant will be well maintained and measures will be taken to ensure that it is shut down in intervening periods between work or throttled down to a minimum.

## **5. CONSTRUCTION LIGHTING**

5.1 Where required, construction lighting will be provided. This can provide a deterrent to vandals and thieves and allow late/early working where authorised, but may also cause a nuisance to local residents and impact fauna. Therefore, when planning and designing a lighting compound the following must be considered:

- Keep lighting to the minimum brightness required;
- Direct lighting downwards where appropriate;
- Use of baffles if up lighting is unavoidable;
- Use of energy efficient lightning;
- Consult the site ecologist before any lighting is installed, to ensure minimum disturbance of local bat roosts

## **6. WASTE MANAGEMENT**

- 6.1 A Site Waste Management Plan will be maintained throughout the works. All major waste streams that will be generated during the Contract will be identified including;
- green waste
  - construction waste, including;
  - spoil
  - demolition waste
  - asphalt or bitumen
  - concrete and metal
  - chemical and paints
  - office waste
  - kitchen waste
  - sewage effluent;
- 6.2 For each waste stream how and where the waste is to be reused, recycled, stockpiled or disposed of will be identified
- 6.3 Waste generated from site activities will be sorted and amounts estimated and recorded.
- 6.4 Where available, waste suitable for reuse or recycling will be reused or recycled.
- 6.5 Materials and products with recycled content will be proposed for the works wherever these are cost and performance competitive and they are environmentally preferable to the non-recycled alternative.
- 6.6 Waste oil will be sent to approved recyclers where appropriate.
- 6.7 Waste and containers not able to be recycled will be disposed of at a licensed landfill site.
- 6.8 No construction waste material will be left on site once the site works have been completed.
- 6.9 The site will be left in a clean and tidy state on completion of the site works.
- 6.10 How the waste will be transported between the site and point of reuse, recycling, stockpiling, treating or disposal and who will be responsible will be identified.

## **APPENDIX D: PROGRAMME OF WORKS**

[illegible]

**APPENDIX E: TOWN PARK PHASE A: PROTECTED SPECIES MITIGATION  
ADVICE NOTE**

# **BEREWOOD TOWN PARK PHASE A: PROTECTED SPECIES MITIGATION ADVICE NOTE**



*On behalf of Grainger*

*12 March 2014*

***FINAL***

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## 1.0 INTRODUCTION

### 1.1 BACKGROUND

In 2011 Grainger received outline planning permission from Winchester City Council (WCC) and Havant Borough Council for a mixed-use development consisting of 2,550 housing units at Newlands (now referred to as Berewood) on the western fringe of Waterlooville in Hampshire. The outline planning application was subject to a full Environmental Impact Assessment (EIA) and also Habitats Regulations Assessment (HRA) screening (N.B. with respect to the HRA the Competent Authority concluded that an Appropriate Assessment was not required).

The present *Protected Species Mitigation Advice Note* has been produced to support the Reserved Matters Application (RMA) for the first component - Phase A - of a four part project to construct Berewood's Town Park. The detailed proposals for Phase A and higher-level/strategic proposals for the entire Park, are set out in the report *Landscape Design Statement Town Park, Phase A, Berewood, Waterlooville* which was produced by the project landscape architects - Fabrik.

The Phase A redline boundary is shown in Figure 1 below. Phase A is hereafter also referred to as the Site. Phase A would consist of a skateboard park, youth shelter, a Locally Equipped Area of Play (LEAP) and informal kick-about space. New habitat would consist mostly of amenity grassland although it would be fringed by wildflower grassland and treelines. The locations of these features are all shown in the aforementioned Fabrik report and the submitted General Arrangement Drawings and so are not reproduced here.

### 1.2 TERMS OF REFERENCE

This report specifically seeks to discharge Condition 6 (ii) – other matters which is attached to the outline permission and requires ‘*details of ecological mitigation measures*’ to be submitted with each RMA.

The present document has been produced in advice note format and so does not describe and assess potential ecological impacts to the same level as a detailed Environmental Statement (ES). This format is considered appropriate as the Site has already been assessed in great detail for the EIA undertaken for the wider Berewood scheme; and because the Site is considered to be of very limited ecological interest as is explained below.

Potential impacts and associated mitigation relating to subsequent phases of the Town Park are NOT covered in this document.

**Figure 1.** Town Park Phase A component



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## 2.0 METHODS

Given that proposals for the wider Berewood site have been developing over a number of years, four separate ecological desk studies have been undertaken, the most recent of which was carried out in October 2012. An Extended Phase 1 Habitat survey was last undertaken in 2007, although various survey validation walkovers have been subsequently undertaken, the last being on the 6<sup>th</sup> March 2014.

Details of various protected species surveys undertaken for the EIA, and then subsequently for individual RMAs (most notably the adjacent Phase 2 and Phase 3 infrastructure RMAs), are not reproduced here. In summary, surveys covering the Site or directly adjacent habitat have included:

- Badger survey.
- Dormouse survey - including connecting hedgerows.
- Bat survey – including multiple surveys of Plant Farm and activity surveys of surrounding linear features.
- Great Crested Newt survey - all suitable ponds within the wider Berewood site have been surveyed (N.B. there are no ponds within the Site itself).
- Reptile survey - including field margins within the Site.
- Breeding bird survey.

## 3.0 EXISTING CONDITIONS

### 3.1 HABITATS

There are no International, European or Nationally designated sites within the Site or sufficiently close to be relevant in terms of being potentially vulnerable to any significant adverse effects relating to the present proposals.

The south-west corner of the Site is ca. 50m from the Local Site - Newlands Row and Plant Row Site of Importance for Nature Conservation (SINC). This SINC and others across the Berewood Site are described in detail in the Environmental Statement.

The Site previously consisted almost entirely of arable land. A short section (ca.25m) of species-rich hedgerow extends along a short section of the Site's northern edge and a species-poor recently planted gappy hedgerow (ca. 200m) separates the field from the A3 London Road along the eastern boundary (the latter is actually planted on the landward side of the adjoining road verge and is outside of the Site boundary).

The Site is no longer farmed and is used to store construction spoil and is the location of the Phase 2 infrastructure site compound. The regular passage of machinery has prevented any ruderal vegetation of significance establishing since the cessation of farming.

### 3.2 FAUNA

The potential for any protected species being present within the Site, which is almost entirely un-vegetated with the exception of the two boundary hedge features, is considered to be low to negligible.

- Badgers. No Badger field signs have been found within or adjacent to the Site.
- Dormice. The two hedgerows are isolated from the surrounding woodland and do not provide sufficient habitat, even when suitable connecting habitat is taken into account, to support a population/sub-population of Dormice. Note that recent detailed Dormouse surveys undertaken in more optimal Dormouse habitat surrounding Plant Farm found no evidence of Dormice.
- Bats. The nearest built structures to the Site which might include bats are within the Plant Farm building complex ca. 220m to the north. Previous surveys identified several summer roosts occupied by very small numbers of lone males and non-breeding female bats (Common Pipistrelle, Brown Long-eared and Natterer's Bat). The farm complex has suffered from repeated arson and other attacks of vandalism, and no longer includes the majority of features that were being utilised by the bats (e.g. the three floors (including the loft space) and the hanging tiles are all gone). The short section of hedge along the Site's northern boundary included two mature trees; no emergence/re-entry surveys were undertaken to check for roosting bats as this hedge would be retained under the proposals and would be suitably protected during landscape works by exclusion fencing (see below). No significant bat foraging/commuting features extend across the Phase A Site.

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- Great Crested Newts. While Great Crested Newts (GCN) breed in a pond near Newlands Farm on the western side of Berewood, a GCN exclusion fence has been installed along the eastern side of Newlands Row woodland and extends half way up the eastern side of Plant Row. This fence renders access to the Site by GCNs highly unlikely; note that any GCNs would need to travel ca. 940m from their breeding pond to reach the Site, assuming that any newts would circumnavigate the northern extremity of the fence (N.B. the distance would be ca. 1km were they to circumnavigate the southern extremity). Plant Farm Pond, which is ca. 210m to the north of the Site boundary, has been surveyed for GCNs on five separate occasions. While none were recorded in four of the surveys including the most recent survey, during one visit in 2012 a single GCN was recorded. It has been provisionally agreed with WCC that it can be assumed that no breeding population exists at Plant Farm Pond and that the risk of individual GCNs being present with the Site itself is negligible. It was however agreed that Plant Farm Pond should be monitored for GCN and so a sixth survey will be carried out in spring 2014.
  - Reptiles. Small numbers of common reptiles (mostly Slow-worms and an occasional Grass Snake) have been recorded along nearby field boundaries. It is possible that a few reptiles do make use of the Site's hedgerow-lined eastern boundary, although none were recorded during the EIA survey and habitat quality is generally poor as no adjoining grassy headland of any significance exists.
  - Breeding birds. Skylarks nest over some of the Berewood's arable fields although none have ever been recorded within the present Site. A small number of common bird species may breed within the boundary hedgerows although the habitat is not considered of sufficient quality and size to support any rare/scarce breeding species.

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## 4.0 POTENTIAL IMPACTS AND MITIGATION

### 4.1 HABITATS

Impacts on habitats and any necessary mitigation are described as follows:

- European Sites. As discussed, the creation of the Town Park would not adversely impact on any European Sites. Rather the Town Park is one component in a substantial network of biodiverse greenspaces being created across the wider Berewood development that aim to deter residents from travelling to local coastal European Sites for passive recreational activities such as dog walking.
- Hedgerows. Fencing already exists between the Site and the hedge on the eastern side of the Site. Exclusion fencing would also be installed along the margins of the short section of hedgerow on the Site's northern boundary to protect both their above surface growth and root systems and minimise landscape works disturbance to hedgerow wildlife. Details are to be provided to construction contractors by the project landscape architect and would be in accordance with *British Standard Trees in Relation to Construction*.
- Water features. Potential pollutants from site activities would be mitigated so far as is practical by employing the measures described within the CEMP (relevant sections can be provided if requested). Where rainfall on site discharges overland directly to SuDS features, the inherent design would settle sediments within the basins and ponds.
- New habitat creation. Habitat would consist mostly of amenity grassland fringed in places by wildflower grassland (predominantly MG5 neutral grassland) and treelines. Within the Phase A of the Town Park, wildflower grassland would be established along the south-eastern and eastern margins as shown on the General Arrangement Drawings that have been produced by the project landscape architects (an approximate indication of the proposed wildflower grassland layout is also shown in Figure 1 above). While the layout of wildflower grassland on these drawings is not exactly as is shown in the ES's eco-masterplan, the overall quantum of wildflower grassland being proposed within the Town Park should actually be greater (taking into account Grainger's commitment to under-sow the arboretum and orchard areas with wildflower grassland). Although the quantum of wildflower grassland shown on the eco-masterplan is to be implemented, the precise distribution of this habitat type may be subject to minor adjustment in certain areas for reasons of visual aesthetic and legibility.

The tree planting palette would include English Oak *Quercus Robur*, a species particularly characteristic of the surrounding Forest of Bere. Various other attractive tree and shrub species characteristic of parks and other greenspaces would include Horse Chestnut *Aesculus hippocastanum*, Field Maple *Acer campestre*, Paul's Scarlett' Hawthorn *Crataegus laevigata*, Hawthorn *Crataegus monogyna*, Hazel *Corylus avellana*, Beech *Fagus sylvatica*, Californian Lilac *Ceanothus* Blue Mound and *Choisya ternate*. The layout of planting is provided in the document *Landscape Design Statement Town Park, Phase A, Berewood, Waterlooville*.

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## 4.2 FAUNA

Potential impacts on fauna and proposed mitigation would be as follows:

- Badgers. No Badger setts would be affected and so no mitigation is proposed. As a precaution, and in keeping with best practice, an additional check for new signs of Badger activity would be undertaken shortly before works are due to commence.
- Bats. The short section of hedgerow along the Site's northern boundary, which would be retained under the proposals, would as a precaution be fenced off in accordance with *British Standard Trees in Relation to Construction* minimising any disturbance that might result from local landscape works. The planting of treelines and establishment of wildflower grassland would be expected to enhance conditions for bats. No lighting columns are proposed for the Park but should this change at a later date for whatever reason, due consideration would be given to protecting newly created bat foraging and commuting habitat.
- Great Crested Newts. Although the risk of GCNs colonising the Site from the west is considered to be negligible, this risk would be reduced even further through extending the GCN fencing along the entire eastern side of Plant Row. The extension to the fencing would increase the distance between the GCN breeding pond and the Site to 1.5km, assuming access from the north. As discussed, it is currently assumed that no GCNs are present in Plant Farm Pond although another precautionary survey (the sixth survey of this pond) is scheduled for spring 2014. Should ongoing monitoring at Plant Farm reveal presence of GCN prior to works to the Town Park commencing, then any further mitigation requirements will be discussed and agreed with the LPAs prior to works commencing.
- Reptiles. As discussed almost all of the Site is currently considered unsuitable for reptiles. To deter future colonisation by reptiles, vegetation would be kept low throughout the construction period where required through cutting and herbicide treatment. For developments of this scale and type however vegetation is usually effectively controlled through the regular passage of men and machinery.
- Breeding birds. No woodland, hedgerow or scrub habitat would be cleared and so no mitigation is required to prevent loss of active nests. During construction there might be some disturbance to breeding birds in the adjoining woodlands, although this would be offset through a programme of substantial new woodland creation (including buffer planting between new housing abutting woodlands) that is being undertaken as part of the wider Berewood development.

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