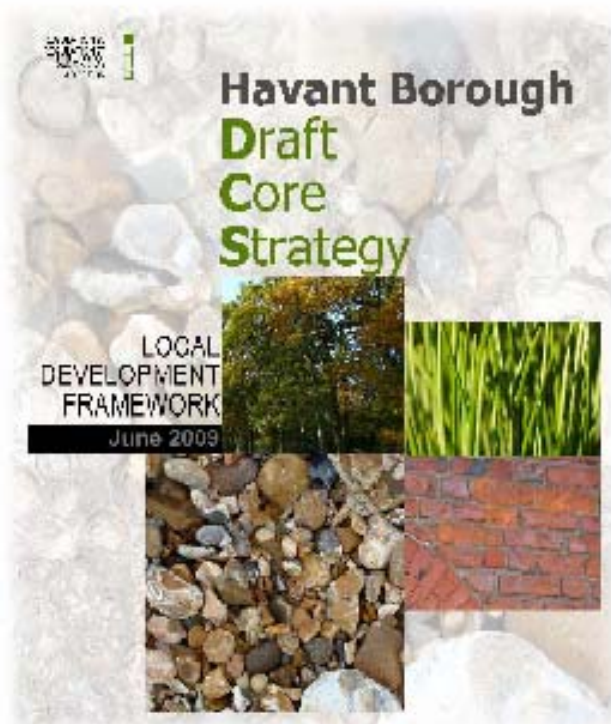


REGULATION 25   
REGULATION 27   
SUBMISSION   
ADOPTION

Havant Borough  
**Draft Core  
Strategy**

**Habitats Regulations  
Assessment  
Screening Statement**

June 2009  
Revision 2



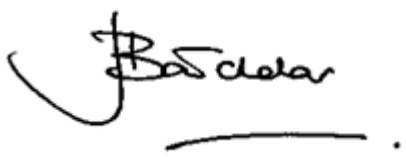
Cleaner, Safer,  
More Prosperous



**Havant**  
BOROUGH COUNCIL



## Amendment Record

| Revision  | Description             | Date                      | Prepared by  | Quality Checked |
|---|-------------------------|---------------------------|--|-----------------|
| 01  | HRA Screening Statement | May 2009                  | JS   | UEA             |
| 02  | HRA Screening Statement | June 2009                 | JS   | AB / JB         |
| Approved by Head of Development and Technical Services - Mrs Jackie Batchelor |                         | 2 <sup>nd</sup> June 2009 |  |                 |

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# Abbreviations

|        |  |
|--------|--|
| AA     | Appropriate Assessment   |
| BREEAM | Building Research Establishment Environment Assessment Methodology |
| DCLG   | Department for Communities and Local Government                    |
| EU     | European Union   |
| HRA    | Habitat Regulations Assessment                                     |
| IROPI  | Imperative Reasons of Overriding Public Interest                   |
| MDA    | Major Development Area   |
| RSS    | Regional Spatial Strategy  |
| SA     | Sustainability Appraisal   |
| SAC    | Special Area of Conservation                                       |
| SEA    | Strategic Environmental Assessment                                 |
| SPA    | Special Protection Area  |

# Executive Summary

## E.1 Introduction

This report explains the process of screening for Habitats Regulations Assessment. It has been prepared by Havant Borough Council and provides an opinion, for consultation with Natural England, Environment Agency, Hampshire Wildlife Trust and others, on whether the Draft Core Strategy requires full assessment under the Habitats Regulations Directive for its effects on European sites.

European sites are areas of international nature conservation importance that are protected for the benefit of the habitats and species they support. The following sites have been included in this study because they could be at risk of experiencing negative impacts as a result of the plan:

- ▶ Butser Hill (SAC)
- ▶ Kingsley Vale (SAC)
- ▶ Solent Isle of Wight Lagoons (SAC)
- ▶ Solent Maritime (SAC)
- ▶ South Wight Maritime (SAC)
- ▶ Chichester and Langstone Harbours (SPA)
- ▶ New Forest (SPA)
- ▶ Pagham Harbour (SPA)
- ▶ Portsmouth Harbour (SPA)
- ▶ Solent and Southampton Water (SPA)
- ▶ Chichester and Langstone Harbours (Ramsar)
- ▶ Pagham Harbour (Ramsar)
- ▶ Portsmouth Harbour (Ramsar)
- ▶ Solent and Southampton Water (Ramsar)
- ▶ New Forest (Ramsar)

## E.2 Findings

Based on the information given, it is Havant Borough Council's considered opinion that the Draft Core Strategy will require full appropriate assessment under the Habitats Regulations Directive in order to ascertain whether or not it will lead to significant adverse effects on site integrity, at nine of the 15 sites included in the study, either alone or in combination with other plans or projects. The policies arising from the plan which may result in a potential negative impact are listed in Table E.1.

Table E.1: Strategic Core Strategy Policies and Development Management policies identified as having a likely significant effect on a European site.

| Policy in question                                   | Site(s) affected   |
|--|--|
| CS2<br>Employment                                    | <ul style="list-style-type: none"> <li>• Chichester and Langstone Harbours (SPA)</li> <li>• Chichester and Langstone Harbours (Ramsar)</li> <li>• Solent Maritime (SAC)</li> </ul>   |
| CS5<br><i>Tourism</i>                                | <ul style="list-style-type: none"> <li>• Chichester and Langstone Harbours (SPA)</li> <li>• Chichester and Langstone Harbours (Ramsar)</li> <li>• Solent Maritime (SAC)</li> </ul>   |
| CS6<br>Regeneration and<br>Community Support         | <ul style="list-style-type: none"> <li>• Chichester and Langstone Harbours (SPA)</li> <li>• Chichester and Langstone Harbours (Ramsar)</li> <li>• Solent Maritime (SAC)</li> <li>• Kingsley Vale (SAC)</li> <li>• Butser Hill (SAC)</li> </ul>   |
| CS8<br>Housing                                       | <ul style="list-style-type: none"> <li>• Solent Maritime (SAC)</li> <li>• Chichester and Langstone Harbours (SPA)</li> <li>• Chichester and Langstone Harbours (Ramsar)</li> <li>• Portsmouth Harbour (SPA and Ramsar)</li> <li>• Kingsley Vale (SAC)</li> <li>• Butser Hill (SAC)</li> <li>• New Forest (SPA and Ramsar)</li> </ul> |
| CS15<br>Strategic Site<br>Brockhampton West          | <ul style="list-style-type: none"> <li>• Solent Maritime (SAC)</li> <li>• Chichester and Langstone Harbours (SPA)</li> <li>• Chichester and Langstone Harbours (Ramsar)</li> </ul>   |
| CS15<br>Strategic Site<br>Hayling Island<br>Seafront | <ul style="list-style-type: none"> <li>• Solent Maritime (SAC)</li> </ul>  |
| CS15<br>Strategic Site<br>Cabbagefield Row           | <ul style="list-style-type: none"> <li>• Butser Hill (SAC)</li> <li>• Kingsley Vale (SAC)</li> <li>• Chichester and Langstone Harbours (SPA)</li> <li>• Chichester and Langstone Harbours (Ramsar)</li> <li>• Solent Maritime (SAC)</li> </ul>   |
| CS15<br>Strategic Site                               | <ul style="list-style-type: none"> <li>• Butser Hill (SAC)</li> <li>• Kingsley Vale (SAC)</li> </ul>   |

|   |  |
|---|--|
| Waterlooville Major Development Area                  | <ul style="list-style-type: none"> <li>• Chichester and Langstone Harbours (SPA)</li> <li>• Chichester and Langstone Harbours (Ramsar)</li> <li>• Solent Maritime (SAC)</li> </ul>   |
| CS15<br>Strategic Site<br>Woodcroft Farm              | <ul style="list-style-type: none"> <li>• Butser Hill (SAC)</li> <li>• Kingsley Vale (SAC)</li> <li>• Chichester and Langstone Harbours (SPA)</li> <li>• Chichester and Langstone Harbours (Ramsar)</li> <li>• Solent Maritime (SAC)</li> </ul> |
| CS17<br>Effective Provision of Infrastructure         | <ul style="list-style-type: none"> <li>• Solent Maritime (SAC)</li> <li>• Chichester and Langstone Harbours (SPA)</li> <li>• Chichester and Langstone Harbours (Ramsar)</li> </ul>   |
| DM15<br>Control of Static Holiday Caravan Development | <ul style="list-style-type: none"> <li>• Chichester and Langstone Harbours (SPA)</li> <li>• Chichester and Langstone Harbours (Ramsar)</li> <li>• Solent Maritime (SAC)</li> </ul>   |

### E.3 Consultation Arrangements

The Draft Core Strategy and this report are open to consultation between 12<sup>th</sup> June 2009 and 24<sup>th</sup> July 2009

All responses to the consultation should be sent to:

Planning Policy and Urban Design

Havant Borough Council

Civic Offices

Civic Centre Road

Havant

Hampshire

PO9 2AX

In responding to consultation, Havant Borough Council would be grateful if respondents can pay regard to the questions provided within Chapter 5 of the main report.

# 1 Introduction

## 1.1 Background

Havant Borough Council is considering the need to undertake a Habitats Regulations Assessment (HRA) of its emerging Draft Core Strategy. The assessment will focus on the possible effects of the plan on the nature conservation interests of Butser Hill (SAC), Kingsley Vale (SAC), Solent Isle of Wight Lagoons (SAC), Solent Maritime (SAC), South Wight Maritime (SAC), Chichester and Langstone Harbours (SPA), Pagham Harbour (SPA), Portsmouth Harbour (SPA), Solent and Southampton Water (SPA), New Forest (SPA), Chichester and Langstone Harbours (Ramsar), Pagham Harbour (Ramsar), Portsmouth Harbour (Ramsar) and Solent and Southampton Water (Ramsar), New Forest (Ramsar).

## 1.2 Purpose of this Report

This report addresses the earliest stages of Habitats Regulations Assessment. It documents the initial evidence gathering process and states whether or not a full appropriate assessment will be required for the plan. The report shows that there are 13 European sites within a 10 kilometre radius of the Havant Borough and 2 European sites 25 Kilometre (New Forest - SPA and Ramsar considered due to its popularity as a tourist destination within the Hampshire sub region) potentially, under the influence of the emerging plan.

The outputs of the report include information in relation to:

- ▶ The Habitats Regulations Assessment process;
- ▶ The plan in question;
- ▶ Evidence gathering in relation to the European sites (Chapter 2);
- ▶ Identification of other relevant plans and projects with the potential to affect the sites (Chapter 3);
- ▶ The HRA methodology and next stages in the HRA process (Chapter 4)

## 1.3 Habitats Regulations Assessment of Land Use Plans

The application of Habitats Regulations Assessment to land use plans in the UK is a relatively new practice that derives from an October 2005 European Court of Justice Ruling on the transposition of European Union Directive 92/43/EEC *on the conservation of natural habitats and of wild fauna and flora* (the Habitats Directive). The ruling found that the Conservation (Natural Habitats, &c.) Regulations (1994) failed to correctly

implement the intention of the Habitats Directive in that it only required the application of HRA to projects, as opposed to plans and programmes<sup>i</sup>.

Consequently, HRA must be applied to all Local Development Documents in England and Wales. HRA aims to assess the likely significant effects of a land use plan against the conservation objectives of any sites designated for their nature conservation importance as part of a system known collectively as the Natura 2000 network of European sites.

European sites provide ecological infrastructure for the protection of sites which are of exceptional importance in respect of rare, endangered or vulnerable natural habitats and species within the European Union. These sites consist of Special Areas of Conservation (SACs, designated under the Habitats Directive) and Special Protection Areas (SPAs, designated under European Union Directive 79/409/EEC *on the conservation of wild birds* (the Birds Directive)). Government policy (PPS9<sup>ii</sup> and Circular 06/05<sup>iii</sup>) recommends that Ramsar sites<sup>iv</sup> are treated as if they are fully designated European sites for the purposes of considering development proposals that may affect them. This report takes the same approach.

Under Article 6(3) of the Habitats Directive, the assessment must determine whether or not a plan will adversely affect the integrity of the European site(s) concerned. Where negative effects are identified, the process should consider alternatives to the proposed actions and explore mitigation opportunities. If it is impossible to avoid or remove the perceived adverse effect, the plan-makers must demonstrate, under the conditions of Article 6(4) of the Habitats Directive, that there are Imperative Reasons of Overriding Public Interest to continue with the proposal. This is widely perceived as an undesirable position and should be avoided if at all possible.

#### 1.4 Background to the Plan

The Havant Borough Draft Core Strategy is a Local Development Framework Document which will set out the Council's vision for the spatial development of the borough over the next 20 years, taking into account the Community, Cultural, Corporate and Regeneration Strategies. The Core Strategy is a strategic level document which aims to bring together the plans of other bodies which have an impact on the development of the borough.

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<sup>i</sup> The Regulations have been revised as a result of the ruling and currently exist as the Conservation (Natural Habitats &c) (Amendment) Regulations (2007) (the Habitats Regulations).

<sup>ii</sup> ODPM (2005): *Planning Policy Statement 9: Biodiversity and Geological Conservation*.

<sup>iii</sup> ODPM (2005): *Government Circular: Biodiversity and Geological Conservation - Statutory Obligations and their Impact within the Planning System*.

<sup>iv</sup> UNESCO (1971): *Convention on Wetlands of International Importance especially as Waterfowl Habitat*. (Ramsar (Iran), 2 February 1971, UN Treaty Series No. 14583).

#### *1.4.1 Draft Core Strategy Objectives*

The Draft Core Strategy objectives have evolved out of the Sustainable Community Strategy: Forward Together 2008 - 2012 which outlines six key themes. Other objectives have also been derived from various Council Strategies and Core Strategy consultations.

#### **The Six Key Themes and Implementation and Monitoring:**

##### **1. Health and Well Being:**

- Improving health and access to services to improve health and physical activity.
- To improve cultural and recreational opportunities throughout the borough for the health and wellbeing of residents.

##### **2. Promoting Havant's Economy:**

- Promote skills development and encourage growth of a knowledge based economy through the allocation of land for employment purposes.
- To deliver Havant Borough's share of regional growth with sites and skills that our dynamic economy requires.
- To attract more visitors to the borough and promote the potential of Hayling Island, Emsworth, Chichester and Langstone Harbours and the rural countryside for tourism.

##### **3. Regeneration and Community Support:**

- Focus regeneration on areas considered to be most deprived and recognise the housing need for the elderly.
- To strengthen the town centres of Havant and Waterlooville and district centres at Leigh Park, Cowplain, Gable Head / Mengham and Emsworth as vibrant places to visit for shopping, leisure and tourism.

##### **4. Community Safety:**

- Designing out crime in development and creating conditions where people have the opportunity to mix with neighbours and reduce the fear of crime.

## 5. Housing

- Providing 6300 new homes to meet demand up to 2026 which will meet the needs of local people.

## 6. Caring for our Borough:

- Create a balance between sustainable growth regarding jobs, housing and services and the unique natural environment around the Havant Borough.
- To ensure development protects and enhances the environment including the sense of place valued by local communities.
- To make sure that development achieves the highest standards for water and soil conservation, energy saving and waste reduction.
- To locate development where it makes the most effective use of land and infrastructure.
- To minimise the impact of flooding on public well being, economy and environment along the coast, stream valleys and in other areas at risk.
- Maintain functional integrity of Green Infrastructure.

## Infrastructure, Implementation and Monitoring:

- To make travel through the borough more convenient, safer, healthier and less environmentally damaging.
- To make effective and efficient use of existing transport routes to improve congestion and improve accessibility.
- To maintain and improve the range of transport modes with specific emphasis on sustainable travel and public transport.
- To improve health care, education and social facilities that are accessible by a range of transport modes and meets the needs of the community.

#### *1.4.2 The Geographic Coverage of the Core Strategy and the Havant Borough*

Havant Borough lies between the coast and the South Downs in the South East corner of Hampshire on the border of West Sussex. The borough consists of two main parts: the mainland and Hayling Island, each area facing different challenges and opportunities. On the mainland the borough is made up of four areas; Havant, Leigh Park, Emsworth and Waterlooville, each have distinct characteristics as well as having very different needs and requirements from the Core Strategy. Emsworth, Havant and Waterlooville are separated by gaps of open land which run into the coastal plain. Hayling Island is largely rural in character with pockets of residential settlements on the Southern end of the Island. Surrounding the Island the natural harbours of Chichester and Langstone and the Solent are internationally recognised for their natural beauty and for their value to wildlife conservation and recreation. Major road networks bisect the Borough east to west and north to south making Havant as a borough highly accessible.

In 2008, 116,900 people lived in approximately 50,000 households giving an average household size of 2.3 persons per household. Changes in social requirements and personal needs means that this is projected to fall to 2.1 persons per household by 2026 (ONS cited by Hampshire County Council). The population, as elsewhere in the UK is ageing. This is more evident in certain areas of the borough than others, for example Emsworth and Hayling Island where the proportion of elderly is set to rise as the existing population ages and people move to both localities due to their attraction as retirement destinations.

#### *1.4.3 Timescale over which the plan will be implemented*

In 2008 Havant Borough Council began work on the new Draft Core Strategy using previous information gathered from key stakeholders and consultations arising from the Core Strategy Preferred Options document. This information is now being used along side new government guidance within Planning Policy Statement 12.

The Draft of the Core Strategy 2008 - 2026 will be completed in spring 2009 and will go out for public consultation in the summer of 2009, with full submission of the final Core Strategy planned for spring 2010.

In planning for the next twenty years, Havant's Local Development Framework must respond but not repeat or deviate from national guidelines set out in the Governments Planning Policy Guidance Notes and subsequent Planning Policy Statements, it must also conform to the Regional Spatial Strategy as outlined within the South East Plan.

By 2026 Havant Borough should be a place where people of all ages and circumstances want to live, a place where high educational attainment, good health and safety is the norm.

#### *1.4.4 Likely key outcomes of the plan*

The South East Plan allocates 80,000 new dwellings within the Partnership for Urban South Hampshire sub region (PUSH). 6,300 of these dwellings will be allocated for potential sites within the Havant Borough for intended development up to 2026. Most of these houses will be built on sites within the urban areas of the borough and will be a mixture of both houses intended for the open market and affordable housing.

Other alternative sites will be considered as 'urban extensions', whereby new housing will be built next to existing built up areas which are reasonably accessible to existing services and facilities. The outstanding housing requirement will be located within the existing built up area and on existing commitments such as the Major Development Area west of Waterlooville or on greenfield where necessary.

In regards to employment space the majority of development will take place on previously developed land, with the remaining balance allocated for potential sites considered as greenfield land. Dunsbury Hill Farm and Brockhampton West are examples of this. Due to the connectivity of their locations and the market potential of the sites both examples would be considered as major business development areas.

Non residential development will only be permitted by Havant Borough Council provided on completion it achieves a minimum BREEAM standard of 'very good', and equivalent Code for Sustainable Homes (3 stars up to 2011 reaching Code 6 from 2016 onwards) thresholds are set out for residential developments. These standards are set to increase in future years.

Major developments to the area west of Waterlooville plus Dunsbury Hill Farm and Havant Thicket Reservoir will provide a focus for stronger east-west transport links. Effective use of infrastructure routes as a result of such development would create a cross borough link between employment sites at Dunsbury Hill Farm, commercial growth sites at Havant and Waterlooville Town Centres, Leigh Park, enabling opportunity and regeneration for Leigh Park and centres for tourism at Emsworth and Hayling Island.

The overall aim of the Core Strategy is to achieve the Vision as set out on page 17 and 18 of the Draft. At the heart of the Core Strategy are the principles of sustainable development and whilst it is a challenge to balance the social regeneration, economic regeneration and environmental stewardship, it is considered that these are all appropriately addressed so that neither undermines the other.

## 2 European Sites

### 2.1 Scope of the Study

European sites of nature conservation interest can be affected by land use plans in a number of different ways. These include the direct footprint of new development, the use type (for example, a noise emitting use), the levels of pollution a development generates and the resources it uses (during both construction and operation).

Best practice guidance<sup>v</sup> on Habitats Regulations Assessment suggests that all European sites within the area of coverage of a plan, together with all those within a 10km buffer zone should be considered as potential receptors for negative effects. In addition to these, other European sites further than 10km from the area of coverage of a plan may also be affected. This is particularly the case where there is potential for developments resulting from the plan to generate water-borne pollutants, or where there are particularly high demands for water resources.

The following 15 European sites are wholly or partially within the area covered by the plan, or close to it, and may potentially be affected by activities arising from the plan:

Table 2.1: European sites in the vicinity of the Havant Borough

| <i>Name</i>                              | <i>Location</i>                | <i>Type</i> |
|--|--------------------------------|-------------|
| <i>Butser Hill</i>                       | <i>Within 10km buffer zone</i> | <i>SAC</i>  |
| <i>Kingsley Vale</i>                     | <i>Within 10km buffer zone</i> | <i>SAC</i>  |
| <i>Solent Isle of Wight Lagoons</i>      | <i>Within Havant</i>           | <i>SAC</i>  |
| <i>Solent Maritime</i>                   | <i>Within 10km buffer zone</i> | <i>SAC</i>  |
| <i>South Wight Maritime</i>              | <i>Within 10km buffer zone</i> | <i>SAC</i>  |
| <i>Chichester and Langstone Harbours</i> | <i>Within Havant</i>           | <i>SPA</i>  |
| <i>Pagham Harbour</i>                    | <i>Within 10km buffer zone</i> | <i>SPA</i>  |

<sup>v</sup> David Tyldesley and Associates (for English Nature, 2006): *Draft Guidance: The Assessment of Regional Spatial Strategies and Sub-Regional Strategies under the Provisions of the Habitats Regulations*. [Please note: similar guidance is being prepared by David Tyldesley and Associates for Natural England but is not yet available. In the absence of this document it has been agreed with Natural England and the Environment Agency that the guidance prepared for RSS and SRS is suitable for use with LDD.]

|  |                                |               |
|--|--------------------------------|---------------|
| <i>Portsmouth Harbour</i>                | <i>Within 10km buffer zone</i> | <i>SPA</i>    |
| <i>Solent and Southampton Water</i>      | <i>Within 10km buffer zone</i> | <i>SPA</i>    |
| <i>New Forest</i>                        | <i>Within 25km buffer zone</i> | <i>SPA</i>    |
| <i>Chichester and Langstone Harbours</i> | <i>Within Havant</i>           | <i>Ramsar</i> |
| <i>Pagham Harbour</i>                    | <i>Within 10km buffer zone</i> | <i>Ramsar</i> |
| <i>Portsmouth Harbour</i>                | <i>Within 10km buffer zone</i> | <i>Ramsar</i> |
| <i>Solent and Southampton Water</i>      | <i>Within 10km buffer zone</i> | <i>Ramsar</i> |
| <i>New Forest</i>                        | <i>Within 25km buffer zone</i> | <i>Ramsar</i> |

Figure 2.1 shows these sites and how they relate to the area in question.

## 2.2 Site Descriptions

An ecological description of each European site is shown in Appendix I.

## 2.3 Qualifying Features

The qualifying features of each site (that is, the reasons for which the sites were designated) are demonstrated in Appendix II.

## 2.4 Conservation Objectives

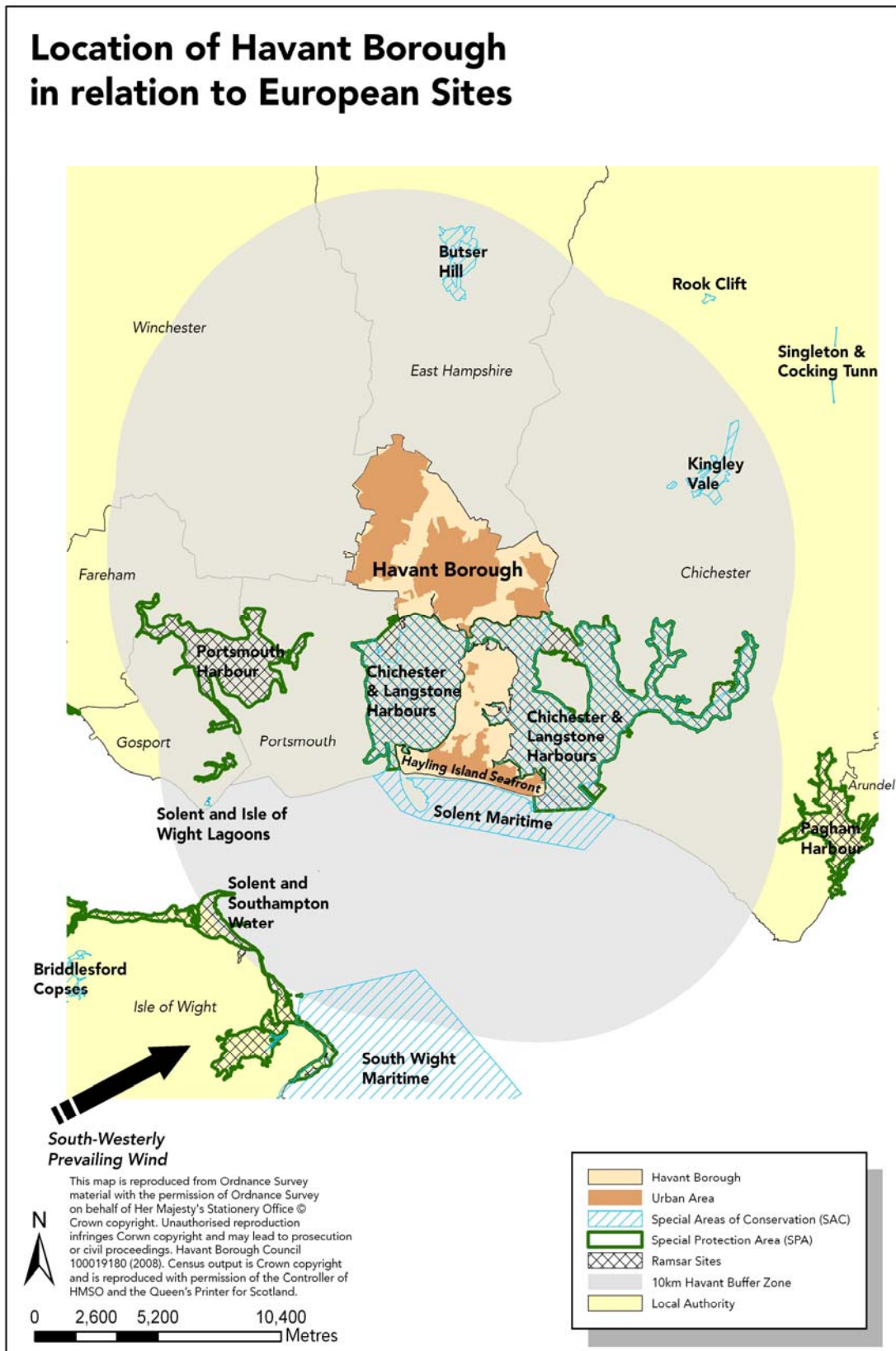
Natural England is in the process of setting out revised conservation objectives for all SACs and SPAs, and progress towards these objectives can be taken as an indicator of favourable conservation status at the site. Ramsar sites do not have agreed conservation objectives, but in most instances overlap with SPA site boundaries. However, it should be noted that Ramsar qualifying features include a range of habitats and non bird species common to SAC designations, as well as bird species and assemblages and their supporting habitats, which are common to SPAs. The conservation objectives of the above listed sites are shown in Appendix III.

## 2.5 Vulnerabilities and Opportunities

Every European site has distinctive characteristics that make it vulnerable to a variety of impact-inducing activities. Many sites, due to their location or condition, also offer various opportunities for improvement.

The vulnerabilities and opportunities of the above named sites are shown in Appendix IV.

Figure 2.1: European Sites within 10km of Havant Borough



## 3 Effects of the Plan

### 3.1 Background

Section 1 described the aims, objectives and geographic coverage of the plan. This chapter will consider the various options available in order to achieve these aims and objectives and, acknowledging that the plan is not necessary to European site management, state whether or not they are likely to have significant adverse effects on site integrity, either alone or in combination with other plans or projects.

Site integrity can be described as follows:

*“The integrity of a site is the coherence of its ecological structure and function, across its whole area, that enables it to sustain the habitat, complex of habitats and/or the levels of populations of the species for which it was classified.”<sup>vi</sup>*

### 3.2 Consideration of Effects

All proposals have been screened for their likely significant effects on the European sites in question. Proposals can be sorted into one of nine categories which are listed below in Box 1. Table 3.1a and 3.1b illustrates the result of the screening process, where the numbers in each of the coloured cells correspond to a category listed in Box 1.

**Box 1: Categories of policies (Source David Tyldesley and Associates (draft, 2006))**

*Reasons why proposal will have no effect on a European Site:*

1. The policy will not itself lead to development (e.g. it relates to design or other qualitative criteria for development, or it is not a land use planning policy).
2. The policy makes provision for a quantum / type of development (and may or may not indicate one or more broad locations e.g. a district, town or suburb) but the location of the development is to be selected following consideration of options in lower tier plans.
3. No development could occur through this policy alone, because it is implemented through sub-ordinate policies which are more detailed and therefore more appropriate to assess for their effects on European sites and associated sensitive areas.

<sup>vi</sup> ODPM (2005): *Government Circular: Biodiversity and Geological Conservation - Statutory Obligations and their Impact within the Planning System.*

4. Concentration of development in urban areas will not affect European site and will help to steer development and land use change away from European sites and associated sensitive areas.
5. The policy will help to steer development away from European sites and associated sensitive areas, e.g. not developing in areas of flood risk or areas otherwise likely to be affected by climate change.
6. The policy is intended to protect the natural environment, including biodiversity.
7. The policy is intended to conserve or enhance the natural, built or historic environment, and enhancement measures will not be likely to have any effect on a European site.

*Reason why proposal could have a likely significant effect:*

8. The plan steers a quantum or type of development towards, or encourages development in, an area that includes a European site or an area where development may indirectly affect a European site.

*Reason why proposal would be likely to have a significant effect:*

9. The policy makes provision for a quantum, or kind of development that in the location(s) proposed would be likely to have a significant effect on the integrity of a European site. The proposal must be subject to appropriate assessment to establish, in light of the site's conservation objectives, whether it can be ascertained that the proposal would not adversely affect the integrity of the site.

### *3.2.1 Effects of the plan alone*

There were no policies or proposals of the draft plan that were considered likely to lead to significant adverse effects on site integrity alone.

### *3.2.2 Effects of the plan in combination*

Table 3.2a and 3.2b outlines the proposals from the screening assessment which were deemed to have a likely significant effect on a European site in combination with other plans or projects (those highlighted in amber on Table 3.1a and Table 3.1b). The proposals require further assessment to ascertain the nature and significance of effects, in accordance with the precautionary principle.

Table 3.1a: Screening Summary Table of Strategic Core Strategy Policies

| Site Name                               | Solent Maritime (SAC) | Solent Isle of Wight lagoons (SAC) | Chichester & L'stone Harbours (SPA) | Chichester & L'stone Harbours (Ramsar) | Ports - mouth Harbour (SPA) | Ports - mouth Harbour (Ramsar) | Solent & South - ampton Water (SPA) | Solent & South - ampton Water (Ramsar) | Kingsley Vale (SAC) | South Wight Maritime (SAC) | Butser Hill (SAC) | Pagham Harbour (SPA) | Pagham Harbour (Ramsar) | New Forest (SPA) | New Forest (Ramsar) |
|---|-----------------------|------------------------------------|-------------------------------------|--|-----------------------------|--------------------------------|-------------------------------------|--|---------------------|----------------------------|-------------------|----------------------|-------------------------|------------------|---------------------|
| Policy                                  |                       |                                    |                                     |  |                             |                                |                                     |  |                     |                            |                   |                      |                         |                  |                     |
| CS1<br>Health and Wellbeing             | 4                     | 4                                  | 4                                   | 4                                      | 4                           | 4                              | 4                                   | 4                                      | 4                   | 4                          | 4                 | 4                    | 4                       | 4                | 4                   |
| CS2<br>Employment                       | 8                     | 4                                  | 8                                   | 8                                      | 4                           | 4                              | 4                                   | 4                                      | 4                   | 4                          | 4                 | 4                    | 4                       | 4                | 4                   |
| CS3<br>Skills                           | 1                     | 1                                  | 1                                   | 1                                      | 1                           | 1                              | 1                                   | 1                                      | 1                   | 1                          | 1                 | 1                    | 1                       | 1                | 1                   |
| CS4<br>Location of Shopping Development | 4                     | 4                                  | 4                                   | 4                                      | 4                           | 4                              | 4                                   | 4                                      | 4                   | 4                          | 4                 | 4                    | 4                       | 4                | 4                   |
| CS5<br>Tourism                          | 8                     | 5                                  | 8                                   | 8                                      | 5                           | 5                              | 5                                   | 5                                      | 5                   | 5                          | 5                 | 5                    | 5                       | 5                | 5                   |
| CS6<br>Regeneration                     | 8                     | 4                                  | 8                                   | 8                                      | 4                           | 4                              | 4                                   | 4                                      | 8                   | 4                          | 8                 | 4                    | 4                       | 4                | 4                   |
| CS7<br>Community Safety                 | 1                     | 1                                  | 1                                   | 1                                      | 1                           | 1                              | 1                                   | 1                                      | 1                   | 1                          | 1                 | 1                    | 1                       | 1                | 1                   |
| CS8<br>Housing                          | 8                     | 5                                  | 8                                   | 8                                      | 8                           | 8                              | 5                                   | 5                                      | 8                   | 5                          | 8                 | 5                    | 5                       | 8                | 8                   |
| CS9<br>Special Environment              | 6,7                   | 6,7                                | 6,7                                 | 6,7                                    | 6,7                         | 6,7                            | 6,7                                 | 6,7                                    | 6,7                 | 6,7                        | 6,7               | 6,7                  | 6,7                     | 6,7              | 6,7                 |
| CS10<br>Green Infrastructure            | 6,7                   | 6,7                                | 6,7                                 | 6,7                                    | 6,7                         | 6,7                            | 6,7                                 | 6,7                                    | 6,7                 | 6,7                        | 6,7               | 6,7                  | 6,7                     | 6,7              | 6,7                 |
| CS11<br>Dev in Urban Areas              | 1,7                   | 1,7                                | 1,7                                 | 1,7                                    | 1,7                         | 1,7                            | 1,7                                 | 1,7                                    | 1,7                 | 1,7                        | 1,7               | 1,7                  | 1,7                     | 1,7              | 1,7                 |
| CS12<br>Efficient Resources             | 1                     | 1                                  | 1                                   | 1                                      | 1                           | 1                              | 1                                   | 1                                      | 1                   | 1                          | 1                 | 1                    | 1                       | 1                | 1                   |
| CS13<br>Flooding                        | 1,5                   | 1,5                                | 1,5                                 | 1,5                                    | 1,5                         | 1,5                            | 1,5                                 | 1,5                                    | 1,5                 | 1,5                        | 1,5               | 1,5                  | 1,5                     | 1,5              | 1,5                 |

Table 3.1a Continued...

| Site Name                        | Solent Maritime (SAC) | Solent Isle of Wight lagoons (SAC) | Chichester & L'stone Harbours (SPA) | Chichester & L'stone Harbours (Ramsar) | Ports - mouth Harbour (SPA) | Ports - mouth Harbour (Ramsar) | Solent & South - ampton Water (SPA) | Solent & South - ampton Water (Ramsar) | Kingsley Vale (SAC) | South Wight Maritime (SAC) | Butser Hill (SAC) | Pagham Harbour (SPA) | Pagham Harbour (Ramsar) | New Forest (SPA) | New Forest (Ramsar) |
|----------------------------------|-----------------------|------------------------------------|-------------------------------------|--|-----------------------------|--------------------------------|-------------------------------------|--|---------------------|----------------------------|-------------------|----------------------|-------------------------|------------------|---------------------|
| Policy                           |                       |                                    |                                     |  |                             |                                |                                     |  |                     |                            |                   |                      |                         |                  |                     |
| CS14 Design                      | 1                     | 1                                  | 1                                   | 1                                      | 1                           | 1                              | 1                                   | 1                                      | 1                   | 1                          | 1                 | 1                    | 1                       | 1                | 1                   |
| CS15 Brock'ton West              | 8                     | 5                                  | 8                                   | 8                                      | 5                           | 5                              | 5                                   | 5                                      | 5                   | 5                          | 5                 | 5                    | 5                       | 5                | 5                   |
| CS15 Public Services Village     | 4                     | 4                                  | 4                                   | 4                                      | 4                           | 4                              | 4                                   | 4                                      | 4                   | 4                          | 4                 | 4                    | 4                       | 4                | 4                   |
| CS15 Hayling Island Seafront     | 8                     | 4                                  | 4                                   | 4                                      | 4                           | 4                              | 4                                   | 4                                      | 4                   | 4                          | 4                 | 4                    | 4                       | 4                | 4                   |
| CS15 Leigh Park Centre           | 4                     | 4                                  | 4                                   | 4                                      | 4                           | 4                              | 4                                   | 4                                      | 4                   | 4                          | 4                 | 4                    | 4                       | 4                | 4                   |
| CS15 Havant Thicket              | 5                     | 5                                  | 5                                   | 5                                      | 5                           | 5                              | 5                                   | 5                                      | 5                   | 5                          | 5                 | 5                    | 5                       | 5                | 5                   |
| CS15 Cabbagefield Row            | 8                     | 5                                  | 8                                   | 8                                      | 5                           | 5                              | 5                                   | 5                                      | 8                   | 5                          | 8                 | 5                    | 5                       | 5                | 5                   |
| CS15 Solent Gateway              | 5                     | 5                                  | 5                                   | 5                                      | 5                           | 5                              | 5                                   | 5                                      | 5                   | 5                          | 5                 | 5                    | 5                       | 5                | 5                   |
| CS15 MDA                         | 8                     | 5                                  | 8                                   | 8                                      | 5                           | 5                              | 5                                   | 5                                      | 8                   | 5                          | 8                 | 5                    | 5                       | 5                | 5                   |
| CS15 Woodcroft Farm              | 8                     | 5                                  | 8                                   | 8                                      | 5                           | 5                              | 5                                   | 5                                      | 8                   | 5                          | 8                 | 5                    | 5                       | 5                | 5                   |
| CS16 Transport                   | 3                     | 3                                  | 3                                   | 3                                      | 3                           | 3                              | 3                                   | 3                                      | 3                   | 3                          | 3                 | 3                    | 3                       | 3                | 3                   |
| CS17 Provision of Infrastructure | 8                     | 3                                  | 8                                   | 8                                      | 3                           | 3                              | 3                                   | 3                                      | 3                   | 3                          | 3                 | 3                    | 3                       | 3                | 3                   |

Table 3.1a Continued...

|                                    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| CS18<br>Developer<br>Contributions | 1,7 | 1,7 | 1,7 | 1,7 | 1,7 | 1,7 | 1,7 | 1,7 | 1,7 | 1,7 | 1,7 | 1,7 | 1,7 | 1,7 | 1,7 |
|------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|

*Policy CS15 (Strategic Site Delivery) contains the strategic sites which are considered necessary for the delivery of the Core Strategy. Each site has been graded individually for its likely impact on the European Sites.*

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|--|--------------------------|
|  | <i>Potential Impact</i>  |
|  | <i>Less or No Impact</i> |

Table 3.1b: Screening Summary Table of Development Management Policies

| Site Name   | Solent Maritime (SAC) | Solent Isle of Wight lagoons (SAC) | Chichester & Langstone Harbours (SPA) | Chichester & Langstone Harbours (SPA) | Ports - mouth Harbour (SPA) | Ports - mouth Harbour (Ramsar) | Solent & South - ampton Water (SPA) | Solent & South - ampton Water (Ramsar) | Kingsley Vale (SAC) | South Wight Maritime (SAC) | Butser Hill (SAC) | Pagham Harbour (SPA) | Pagham Harbour (Ramsar) | New Forest (SPA) | New Forest (Ramsar) |
|---|-----------------------|------------------------------------|---------------------------------------|---------------------------------------|-----------------------------|--------------------------------|-------------------------------------|--|---------------------|----------------------------|-------------------|----------------------|-------------------------|------------------|---------------------|
| Policy  |                       |                                    |                                       |                                       |                             |                                |                                     |  |                     |                            |                   |                      |                         |                  |                     |
| DM1<br>Conservation Areas                                       | 7                     | 7                                  | 7                                     | 7                                     | 7                           | 7                              | 7                                   | 7                                      | 7                   | 7                          | 7                 | 7                    | 7                       | 7                | 7                   |
| DM2<br>Listed Buildings   | 7                     | 7                                  | 7                                     | 7                                     | 7                           | 7                              | 7                                   | 7                                      | 7                   | 7                          | 7                 | 7                    | 7                       | 7                | 7                   |
| DM3<br>Historic Parks and Gardens                               | 7                     | 7                                  | 7                                     | 7                                     | 7                           | 7                              | 7                                   | 7                                      | 7                   | 7                          | 7                 | 7                    | 7                       | 7                | 7                   |
| DM4<br>Buildings of Local Interest                              | 7                     | 7                                  | 7                                     | 7                                     | 7                           | 7                              | 7                                   | 7                                      | 7                   | 7                          | 7                 | 7                    | 7                       | 7                | 7                   |
| DM5<br>Development Affecting Archaeological Sites and Monuments | 7                     | 7                                  | 7                                     | 7                                     | 7                           | 7                              | 7                                   | 7                                      | 7                   | 7                          | 7                 | 7                    | 7                       | 7                | 7                   |

Table 3.1b Continued...

| Site Name  | Solent Maritime (SAC) | Solent Isle of Wight lagoons (SAC) | Chichester & Langstone Harbours (SPA) | Chichester & Langstone Harbours (SPA) | Ports - mouth Harbour (SPA) | Ports - mouth Harbour (Ramsar) | Solent & South - ampton Water (SPA) | Solent & South - ampton Water (Ramsar) | Kingsley Vale (SAC) | South Wight Maritime (SAC) | Butser Hill (SAC) | Pagham Harbour (SPA) | Pagham Harbour (Ramsar) | New Forest (SPA) | New Forest (Ramsar) |
|--|-----------------------|------------------------------------|---------------------------------------|---------------------------------------|-----------------------------|--------------------------------|-------------------------------------|--|---------------------|----------------------------|-------------------|----------------------|-------------------------|------------------|---------------------|
| Policy   |                       |                                    |                                       |                                       |                             |                                |                                     |  |                     |                            |                   |                      |                         |                  |                     |
| DM6<br>Enabling Development and the Conservation of Heritage | 7                     | 7                                  | 7                                     | 7                                     | 7                           | 7                              | 7                                   | 7                                      | 7                   | 7                          | 7                 | 7                    | 7                       | 7                | 7                   |
| DM7<br>Conservation, Protection of Natural Features          | 7                     | 7                                  | 7                                     | 7                                     | 7                           | 7                              | 7                                   | 7                                      | 7                   | 7                          | 7                 | 7                    | 7                       | 7                | 7                   |
| DM8<br>Development in Coastal Zone                           | 7                     | 7                                  | 7                                     | 7                                     | 7                           | 7                              | 7                                   | 7                                      | 7                   | 7                          | 7                 | 7                    | 7                       | 7                | 7                   |
| DM9<br>Pollution   | 6                     | 6                                  | 6                                     | 6                                     | 6                           | 6                              | 6                                   | 6                                      | 6                   | 6                          | 6                 | 6                    | 6                       | 6                | 6                   |
| DM10<br>Flood Defence & Coast Protection                     | 7                     | 7                                  | 7                                     | 7                                     | 7                           | 7                              | 7                                   | 7                                      | 7                   | 7                          | 7                 | 7                    | 7                       | 7                | 7                   |
| DM11<br>Protection of Employment Sites                       | 4                     | 4                                  | 4                                     | 4                                     | 4                           | 4                              | 4                                   | 4                                      | 4                   | 4                          | 4                 | 4                    | 4                       | 4                | 4                   |
| DM12<br>Change of Use of Primary and Secondary Frontages     | 4                     | 4                                  | 4                                     | 4                                     | 4                           | 4                              | 4                                   | 4                                      | 4                   | 4                          | 4                 | 4                    | 4                       | 4                | 4                   |
| DM13<br>Control of Class A3, A4 and A5                       | 1                     | 1                                  | 1                                     | 1                                     | 1                           | 1                              | 1                                   | 1                                      | 1                   | 1                          | 1                 | 1                    | 1                       | 1                | 1                   |

Table 3.1b Continued...

| Site Name  | Solent Maritime (SAC) | Solent Isle of Wight lagoons (SAC) | Chichester & Langstone Harbours (SPA) | Chichester & Langstone Harbours (SPA) | Ports - mouth Harbour (SPA) | Ports - mouth Harbour (Ramsar) | Solent & South - ampton Water (SPA) | Solent & South - ampton Water (Ramsar) | Kingsley Vale (SAC) | South Wight Maritime (SAC) | Butser Hill (SAC) | Pagham Harbour (SPA) | Pagham Harbour (Ramsar) | New Forest (SPA) | New Forest (Ramsar) |
|--|-----------------------|------------------------------------|---------------------------------------|---------------------------------------|-----------------------------|--------------------------------|-------------------------------------|--|---------------------|----------------------------|-------------------|----------------------|-------------------------|------------------|---------------------|
| Policy   |                       |                                    |                                       |                                       |                             |                                |                                     |  |                     |                            |                   |                      |                         |                  |                     |
| DM14<br>Provision of Home Based Business               | 4                     | 4                                  | 4                                     | 4                                     | 4                           | 4                              | 4                                   | 4                                      | 4                   | 4                          | 4                 | 4                    | 4                       | 4                | 4                   |
| DM15<br>Control of Static Caravans                     | 8                     | 5                                  | 8                                     | 8                                     | 5                           | 5                              | 5                                   | 5                                      | 5                   | 5                          | 5                 | 5                    | 5                       | 5                | 5                   |
| DM16<br>Protection of Tourism                          | 7                     | 7                                  | 7                                     | 7                                     | 7                           | 7                              | 7                                   | 7                                      | 7                   | 7                          | 7                 | 7                    | 7                       | 7                | 7                   |
| DM17<br>Affordable Housing Provision                   | 1                     | 1                                  | 1                                     | 1                                     | 1                           | 1                              | 1                                   | 1                                      | 1                   | 1                          | 1                 | 1                    | 1                       | 1                | 1                   |
| DM18<br>Affordable Housing - Mixed Communities         | 1                     | 1                                  | 1                                     | 1                                     | 1                           | 1                              | 1                                   | 1                                      | 1                   | 1                          | 1                 | 1                    | 1                       | 1                | 1                   |
| DM19<br>Loss of Dwellings                              | 4                     | 4                                  | 4                                     | 4                                     | 4                           | 4                              | 4                                   | 4                                      | 4                   | 4                          | 4                 | 4                    | 4                       | 4                | 4                   |
| DM20<br>Space Standards, Density, Range of House Types | 4,7                   | 4,7                                | 4,7                                   | 4,7                                   | 4,7                         | 4,7                            | 4,7                                 | 4,7                                    | 4,7                 | 4,7                        | 4,7               | 4,7                  | 4,7                     | 4,7              | 4,7                 |
| DM21<br>Elderly and Specialist Housing                 | 4                     | 4                                  | 4                                     | 4                                     | 4                           | 4                              | 4                                   | 4                                      | 4                   | 4                          | 4                 | 4                    | 4                       | 4                | 4                   |
| DM22<br>Gypsies and Travellers                         | 5                     | 5                                  | 5                                     | 5                                     | 5                           | 5                              | 5                                   | 5                                      | 5                   | 5                          | 5                 | 5                    | 5                       | 5                | 5                   |

Table 3.1b Continued...

| Site Name   | Solent Maritime (SAC) | Solent Isle of Wight lagoons (SAC) | Chichester & Langstone Harbours (SPA) | Chichester & Langstone Harbours (SPA) | Ports - mouth Harbour (SPA) | Ports - mouth Harbour (Ramsar) | Solent & South - ampton Water (SPA) | Solent & South - ampton Water (Ramsar) | Kingsley Vale (SAC) | South Wight Maritime (SAC) | Butser Hill (SAC) | Pagham Harbour (SPA) | Pagham Harbour (Ramsar) | New Forest (SPA) | New Forest (Ramsar) |
|---|-----------------------|------------------------------------|---------------------------------------|---------------------------------------|-----------------------------|--------------------------------|-------------------------------------|--|---------------------|----------------------------|-------------------|----------------------|-------------------------|------------------|---------------------|
| Policy  |                       |                                    |                                       |                                       |                             |                                |                                     |  |                     |                            |                   |                      |                         |                  |                     |
| DM23<br>Travelling Showpeople                     | 5                     | 5                                  | 5                                     | 5                                     | 5                           | 5                              | 5                                   | 5                                      | 5                   | 5                          | 5                 | 5                    | 5                       | 5                | 5                   |
| DM24<br>Recreation and Open Space                 | 7                     | 7                                  | 7                                     | 7                                     | 7                           | 7                              | 7                                   | 7                                      | 7                   | 7                          | 7                 | 7                    | 7                       | 7                | 7                   |
| DM25<br>Provision of Community Services           | 5                     | 5                                  | 5                                     | 5                                     | 5                           | 5                              | 5                                   | 5                                      | 5                   | 5                          | 5                 | 5                    | 5                       | 5                | 5                   |
| DM26<br>Protection of Existing Community Services | 4                     | 4                                  | 4                                     | 4                                     | 4                           | 4                              | 4                                   | 4                                      | 4                   | 4                          | 4                 | 4                    | 4                       | 4                | 4                   |
| DM27<br>Public Spaces in Housing Development      | 7                     | 7                                  | 7                                     | 7                                     | 7                           | 7                              | 7                                   | 7                                      | 7                   | 7                          | 7                 | 7                    | 7                       | 7                | 7                   |
| DM28<br>Planning for Sustainable Travel           | 6,7                   | 6,7                                | 6,7                                   | 6,7                                   | 6,7                         | 6,7                            | 6,7                                 | 6,7                                    | 6,7                 | 6,7                        | 6,7               | 6,7                  | 6,7                     | 6,7              | 6,7                 |
| DM29<br>Mitigating the Impacts of Travel          | 6                     | 6                                  | 6                                     | 6                                     | 6                           | 6                              | 6                                   | 6                                      | 6                   | 6                          | 6                 | 6                    | 6                       | 6                | 6                   |
| DM30<br>Car/Cycle Parking (Residential)           | 6                     | 6                                  | 6                                     | 6                                     | 6                           | 6                              | 6                                   | 6                                      | 6                   | 6                          | 6                 | 6                    | 6                       | 6                | 6                   |

Table 3.1b Continued...

| Site Name                           | Solent Maritime (SAC) | Solent Isle of Wight lagoons (SAC) | Chichester & Langstone Harbours (SPA) | Chichester & Langstone Harbours (SPA) | Ports - mouth Harbour (SPA) | Ports - mouth Harbour (Ramsar) | Solent & South - ampton Water (SPA) | Solent & South - ampton Water (Ramsar) | Kingsley Vale (SAC) | South Wight Maritime (SAC) | Butser Hill (SAC) | Pagham Harbour (SPA) | Pagham Harbour (Ramsar) | New Forest (SPA) | New Forest (Ramsar) |
|-------------------------------------|-----------------------|------------------------------------|---------------------------------------|---------------------------------------|-----------------------------|--------------------------------|-------------------------------------|--|---------------------|----------------------------|-------------------|----------------------|-------------------------|------------------|---------------------|
| Policy                              |                       |                                    |                                       |                                       |                             |                                |                                     |  |                     |                            |                   |                      |                         |                  |                     |
| DM31<br>Car/Cycle (non-residential) | 6                     | 6                                  | 6                                     | 6                                     | 6                           | 6                              | 6                                   | 6                                      | 6                   | 6                          | 6                 | 6                    | 6                       | 6                | 6                   |
| DM32<br>Safeguarding                | 4,7                   | 4,7                                | 4,7                                   | 4,7                                   | 4,7                         | 4,7                            | 4,7                                 | 4,7                                    | 4,7                 | 4,7                        | 4,7               | 4,7                  | 4,7                     | 4,7              | 4,7                 |
| DM33<br>Freight Transport           | 4                     | 4                                  | 4                                     | 4                                     | 4                           | 4                              | 4                                   | 4                                      | 4                   | 4                          | 4                 | 4                    | 4                       | 4                | 4                   |
| DM34<br>Extensions to development   | 4                     | 4                                  | 4                                     | 4                                     | 4                           | 4                              | 4                                   | 4                                      | 4                   | 4                          | 4                 | 4                    | 4                       | 4                | 4                   |
| DM35<br>Residential Amenity         | 4                     | 4                                  | 4                                     | 4                                     | 4                           | 4                              | 4                                   | 4                                      | 4                   | 4                          | 4                 | 4                    | 4                       | 4                | 4                   |
| DM36 Co-ord of development          | 4,7                   | 4,7                                | 4,7                                   | 4,7                                   | 4,7                         | 4,7                            | 4,7                                 | 4,7                                    | 4,7                 | 4,7                        | 4,7               | 4,7                  | 4,7                     | 4,7              | 4,7                 |

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|  | <i>Potential Impact</i>  |
|  | <i>Less or No Impact</i> |

Table 3.2a: Strategic Core Strategy Policies identified as having a likely significant effect on a European site

| Policy / proposal in question     | Site(s) affected   | Nature of effect  |
|-----------------------------------|--|---|
| CS2<br>Employment                 | <ul style="list-style-type: none"> <li>• Chichester and Langstone Harbours (SPA)</li> <li>• Chichester and Langstone Harbours (Ramsar)</li> <li>• Solent Maritime (SAC)</li> </ul> | <p>Likely significant effects could be experienced in relation to:</p> <ul style="list-style-type: none"> <li>• Water quality - potential harm from effluent Industrial and commercial discharge plus increased nutrient load from sewage.</li> <li>• Air Quality - Increased pollution from associated road traffic and emissions related with land management and development.</li> <li>• Water abstraction for industrial purposes</li> <li>• Coastal Squeeze - development located within the coastal floodplain may increase intertidal pressure thereby increasing flood risk and the need for defences, reduced wildlife habitats and feeding grounds</li> </ul> |
| CS5<br>Tourism                    | <ul style="list-style-type: none"> <li>• Chichester and Langstone Harbours (SPA)</li> <li>• Chichester and Langstone Harbours (Ramsar)</li> <li>• Solent Maritime (SAC)</li> </ul> | <p>Regeneration and promotion of Hayling Island Seafront and enhanced holiday parks/caravan sites may compromise Solent Maritime and Chichester and Langstone Harbours' nature conservation, although the risk to the natural environment is mentioned.</p> <p>Criteria 1 - 3 could lead to:</p> <ul style="list-style-type: none"> <li>• The loss of supporting habitats, for example development may disconnect green infrastructure thus reducing connectivity of open space for biodiversity and wildlife reducing the fragmentation of breeding grounds.</li> <li>• Disturbance from recreation</li> </ul>   |
| CS6<br>Regeneration and Community | <ul style="list-style-type: none"> <li>• Chichester and Langstone Harbours (SPA)</li> <li>• Chichester and Langstone</li> </ul>  | <p>Predominantly sites for regeneration have been concentrated within the existing urban area and therefore will have no direct impact upon the European sites. However the increase in the number of houses and the development of sites for employment opportunities and regeneration are likely to increase pressures as an</p>  |

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| Support                                      | <p>Harbours (Ramsar)</p> <ul style="list-style-type: none"> <li>• Solent Maritime (SAC)</li> <li>• Kingsley Vale (SAC)</li> <li>• Butser Hill (SAC)</li> </ul>   | <p>indirect impact, most notably within South Hayling. Regeneration within South Hayling will promote tourism and an increase in the number of visitors. Disturbance, loss of habitat and air pollution are therefore potential impacts within this locality.</p>   |
| CS8<br>Housing                               | <ul style="list-style-type: none"> <li>• Solent Maritime (SAC)</li> <li>• Chichester and Langstone Harbours (SPA)</li> <li>• Chichester and Langstone Harbours (Ramsar)</li> <li>• Portsmouth Harbour (SPA and Ramsar)</li> <li>• Kingsley Vale (SAC)</li> <li>• Butser Hill (SAC)</li> <li>• New Forest (SPA and Ramsar)</li> </ul> | <p>Over the period of the Core Strategy it has been proposed that 6300 new homes will be required within the Borough up to 2026. This associated development may have the following effects:</p> <ul style="list-style-type: none"> <li>• Need for Consumptive water abstraction</li> <li>• Water Quality - waste water production,</li> <li>• Recreational pressure and disturbance</li> <li>• Air pollution generated by additional traffic which could negatively affect all sensitive sites.</li> <li>• Coastal Squeeze - development located within the coastal floodplain may increase intertidal pressure thereby increasing flood risk and the need for defences, reduced wildlife habitats and feeding grounds</li> </ul>  |
| CS15<br>Strategic Sites<br>Brockhampton West | <ul style="list-style-type: none"> <li>• Solent Maritime (SAC)</li> <li>• Chichester and Langstone Harbours (SPA)</li> <li>• Chichester and Langstone Harbours (Ramsar)</li> </ul>   | <p>Concentration of development will have the following impacts on the European sites:</p> <ul style="list-style-type: none"> <li>• Loss of supporting habitats - The regional significance of the Brockhampton site as a Brent goose foraging site forms a functional link between Chichester and Langstone Harbours.</li> <li>• Coastal squeeze - This site is vulnerable to flooding, erosion and the need for coastal defence due to increased pressure on the intertidal zone.</li> <li>• Air Quality - Increased road traffic and congestion around access to Brockhampton at the junction of the A27 and A3 (M).</li> <li>• Disturbance and Recreation - An increase in the number of visitors to these sites for a multitude of purposes will cause disturbance to wildlife habitats</li> </ul> |

|  |  |  |
|--|--|--|
|  |  | and breeding grounds.  |
| CS15<br>Strategic Sites<br>Hayling Island<br>Seafront (West<br>Beach to<br>Eastoke Corner) | <ul style="list-style-type: none"> <li>• Solent Maritime (SAC)</li> </ul>  | <p>Proposed regeneration at South Hayling Island may lead to the following impacts:</p> <ul style="list-style-type: none"> <li>• Coastal squeeze - Hayling Island is vulnerable to flooding, erosion and the need for coastal defence due to increased pressure on the intertidal zone.</li> <li>• Disturbance - An increase in the number of visitors to these sites for a multitude of purposes will cause disturbance to wildlife habitats and breeding grounds.</li> <li>• Air pollution generated by additional traffic which could negatively affect all sensitive sites.</li> </ul>                 |
| CS15<br>Strategic Sites<br>Cabbagefield<br>Row   | <ul style="list-style-type: none"> <li>• Butser Hill (SAC)</li> <li>• Kingsley Vale (SAC)</li> <li>• Chichester and Langstone Harbours (SPA)</li> <li>• Chichester and Langstone Harbours (Ramsar)</li> <li>• Solent Maritime (SAC)</li> </ul> | <p>Over the period of the Core Strategy it has been proposed that 250 new homes may be located at the Cabbagefield Row Strategic Site. This associated development may have the following effects:</p> <ul style="list-style-type: none"> <li>• Need for Consumptive water abstraction</li> <li>• Water Quality - waste water production,</li> <li>• Recreational pressure and disturbance</li> <li>• Air pollution generated by additional traffic which could negatively affect all sensitive sites.</li> </ul>  |
| CS15<br>Strategic Sites<br>Waterlooville<br>MDA  | <ul style="list-style-type: none"> <li>• Butser Hill (SAC)</li> <li>• Kingsley Vale (SAC)</li> <li>• Chichester and Langstone Harbours (SPA)</li> <li>• Chichester and Langstone Harbours (Ramsar)</li> <li>• Solent Maritime (SAC)</li> </ul> | <p>Over the period of the Core Strategy it has been proposed that 2000 (600 within the Havant Borough Council boundary) new homes, employment space and physical and community infrastructure may be developed at the MDA site. This associated development may have the following effects:</p> <ul style="list-style-type: none"> <li>• Need for Consumptive water abstraction</li> <li>• Water Quality - waste water production,</li> <li>• Recreational pressure and disturbance</li> <li>• Air pollution generated by additional traffic which could negatively affect all sensitive sites.</li> </ul> |

|   |  |  |
|---|--|--|
| <p>CS15<br/>Strategic Sites<br/>Woodcroft Farm</p>    | <ul style="list-style-type: none"> <li>• Butser Hill (SAC)</li> <li>• Kingsley Vale (SAC)</li> <li>• Chichester and Langstone Harbours (SPA)</li> <li>• Chichester and Langstone Harbours (Ramsar)</li> <li>• Solent Maritime (SAC)</li> </ul> | <p>Over the period of the Core Strategy it has been proposed that 700 (340 within the Havant Borough Council boundary) new homes may be located at the Woodcroft Farm Strategic Site. This associated development may have the following effects:</p> <ul style="list-style-type: none"> <li>• Need for Consumptive water abstraction</li> <li>• Water Quality - waste water production,</li> <li>• Recreational pressure and disturbance</li> <li>• Air pollution generated by additional traffic which could negatively affect all sensitive sites.</li> </ul> |
| <p>CS17<br/>Effective Provision of Infrastructure</p> | <ul style="list-style-type: none"> <li>• Solent Maritime (SAC)</li> <li>• Chichester and Langstone Harbours (SPA)</li> <li>• Chichester and Langstone Harbours (Ramsar)</li> </ul>   | <p>The potential location and type of proposed infrastructure required to meet the key objectives of the Core Strategy are likely to have the following impacts:</p> <ul style="list-style-type: none"> <li>• Need for Consumptive water abstraction</li> <li>• Coastal squeeze - This site is vulnerable to flooding, erosion and the need for coastal defence due to increased pressure on the intertidal zone.</li> </ul>   |

Table 3.2b: Development Management Policies identified as having a likely significant effect on a European site

| Policy / proposal in question                                 | Site(s) affected   | Nature of effect  |
|---|--|---|
| <p>DM15<br/>Control of static holiday caravan development</p> | <ul style="list-style-type: none"> <li>• Chichester and Langstone Harbours (SPA)</li> <li>• Chichester and Langstone Harbours (Ramsar)</li> <li>• Solent Maritime (SAC)</li> </ul> | <p>All licensed caravan sites in the borough are located within Hayling Island, therefore any development as a result of this policy is likely to be directed towards Hayling Island. Extensive development of existing sites may lead to:</p> <ul style="list-style-type: none"> <li>• Disturbance</li> <li>• Air pollution</li> <li>• Coastal Squeeze - development located within the coastal floodplain may increase intertidal pressure thereby increasing flood risk and the need for defences, reduced wildlife habitats and feeding grounds.</li> </ul> |

|  |  |   |
|--|--|---|
|  |  | <ul style="list-style-type: none"><li>• Loss of supporting habitats - The presence of nearby Brent goose foraging sites on Hayling Island form a functional link between Chichester and Langstone Harbours.</li></ul> <p><i>Please note as a result of the production of this Screening Statement and initial consultation with Chichester Harbour Conservancy, Environment Agency, Natural England and RSPB the maximum period of occupancy has been reduced from 10 months to 9 months and the supporting text amended to stipulate that the winter months should be avoided.</i></p> <p><i>The reduction of this time will help to avoid disturbance during the winter nesting season. The Core Strategy seeks the improvement of caravan sites, including management that would reduce environmental impacts, the scale of development relating to this policy will therefore be small scale. No new significant caravan sites will be permitted.</i></p> |
|--|--|---|

### 3.3 In Combination Test

Other plans and projects being implemented or prepared for in the area may also have the potential to cause negative effects on the integrity of European sites. These effects may be exacerbated when experienced in combination with the effects of the plan in question, possibly leading an insignificant effect to become significant. It is therefore important to consider what effects the plan could have in combination with other plans and projects. The following plans and projects have been considered in combination with the plan being assessed to determine whether in combination effects are likely:

- Chichester District Core Strategy
- Chichester District Local Plan (Saved Policies 2007)
- Chichester Harbour AONB Management Plan (2004)
- East Hampshire CAMS
- East Hampshire District Core Strategy
- East Hampshire District Local Plan
- East Hampshire Housing Strategy 2003 - 2008
- Eastleigh Borough Local Plan Review (2001 - 2011)
- Fareham Borough Core Strategy
- Fareham Borough Local Plan Review
- Fareham Borough SDA
- Fareham Housing Strategy (2006 - 2009)
- Gosport Borough Core Strategy
- Havant Thicket Reservoir (Proposed) EIA
- Island Plan Core Strategy
- Isle of Wight Unitary Development Plan (2001)
- Isle of Wight Housing Strategy 2004 - 2009
- North Solent Shoreline Management Plan
- Portchester Castle to Emsworth Coastal Flood and Erosion Risk Management Strategy
- Portsea Island Coastal Strategy Study
- Portsmouth City Local Plan (2006)
- Portsmouth Harbour Plan Review
- The Portsmouth Plan, Draft Core Strategy
- Regeneration Strategy for Havant Borough 2005 - 2008
- Second Local Transport Plan for Portsmouth
- South East Hampshire

| Strategy  | Catchment Flood Management Plan (Scoping Report)  |
|---|---|
| <ul style="list-style-type: none"> <li>• Gosport Borough Local Plan Review</li> </ul>             | <ul style="list-style-type: none"> <li>• The South East Plan (RSS, incorporating Transport Strategy and South Hampshire Sub Regional Strategy)</li> </ul> |
| <ul style="list-style-type: none"> <li>• Gosport Housing Strategy 2004 - 2007</li> </ul>          | <ul style="list-style-type: none"> <li>• Southampton Approach Channel Dredge (Associated British Ports)</li> </ul>  |
| <ul style="list-style-type: none"> <li>• Hampshire County Structure Plan (1996 - 2011)</li> </ul> | <ul style="list-style-type: none"> <li>• Winchester District Local Plan</li> </ul>  |
| <ul style="list-style-type: none"> <li>• Hampshire Local Transport Plan 2</li> </ul>              | <ul style="list-style-type: none"> <li>• Winchester Core Strategy</li> </ul>  |
| <ul style="list-style-type: none"> <li>• Hampshire Minerals and Waste Core Strategy</li> </ul>    | <ul style="list-style-type: none"> <li>• Winchester Housing Strategy 2004/2007 East Dorset Sub Regional Strategy</li> </ul>                               |
| <ul style="list-style-type: none"> <li>• Havant Borough Wide Local Plan 2005</li> </ul>           | <ul style="list-style-type: none"> <li>• Budds Farm Sewage Treatment Works (Proposed)</li> </ul>  |

### Screening

- 3.4 Based on the information given above it is Havant Borough Council considered opinion that the Draft Core Strategy will require a full appropriate assessment under the Habitats Regulations in order to ascertain whether or not it will lead to significant adverse effects on site integrity, either alone or in combination with other plans or projects.

This opinion is subject to consultation with Natural England and other key stakeholders and the public and may be revised in light of any comments given.

## 4 Scope and Methodology

### 4.1 Introduction

Guidance on Habitats Regulations Assessment has been published in draft form by the Government<sup>vii</sup>. This draws on advice from a range of experts as well as European Union guidance<sup>viii</sup> regarding methodology for appropriate assessment of plans.

The guidance recognises that there is no statutory method for undertaking Habitats Regulations Assessment and that the adopted method must be *appropriate* to its purpose under the Habitats Directive and Regulations; this concept is the reason why HRA is also often referred to as appropriate assessment. The guidance identifies three stages to the HRA process:

- ▶ AA1: Likely Significant Effects
- ▶ AA2: Appropriate Assessment and Ascertaining the Effect on Integrity
- ▶ AA3: Mitigation Measures and Alternative Solutions

Where stage AA3 cannot produce alternative solutions or mitigation to remove or reduce adverse effects to insignificant levels, there may be a need to explore Imperative Reasons of Overriding Public Interest (IROPI). This is discouraged by DCLG. The three stages collectively make up Habitats Regulations Assessment, while Stage AA2 is the point at which appropriate assessment of the plan is carried out if the evidence points to a need for such an assessment.

Natural England (formerly English Nature) has produced more prescriptive draft guidance on the assessment on Regional Spatial Strategies (RSS) and sub-regional strategies<sup>ix</sup> under the provisions of the Habitats Regulations 2007. This introduces the concept of a stepped approach to the assessment process and fits within the framework of the three stages identified by DCLG. Whilst the guidance has been written for RSSs similar guidance, drawing on the same principles, is being prepared for Development Plan Documents.

Table 4.1 illustrates how the two approaches can be operated as one integrated methodology to achieve the same outcome from each approach. It is recognised that

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<sup>vii</sup> DCLG (2006): *Planning for the Protection of European Sites: Appropriate Assessment (Draft)*

<sup>viii</sup> European Commission (2001): *Assessment of plans and projects significantly affecting Natura 2000 Sites: Methodological Guidance on the Provisions of Article 6(3) and 6(4) of the Habitats Directive*

<sup>ix</sup> David Tyldesley and Associates (for English Nature, 2006): *Draft Guidance: The Assessment of Regional Spatial Strategies and Sub-Regional Strategies under the Provisions of the Habitats Regulations*

HRA may be undertaken at the same time as other assessment processes associated with the preparation of development documents (i.e., Sustainability Appraisal and Strategic Environmental Assessment (SA/SEA)), but it should be noted that it is a distinct procedure with its own legislative requirements.

Table 4.1: Stages in the Habitats Regulations Assessment process drawing on guidance from the DCLG and Natural England

| DLCG Stage   | Natural England (Tyldesley) Steps   |
|--|---|
| AA1: Likely significant effects                                      | 1. Identify all international sites in and around the area.   |
|  | 2. Acquire, examine and understand conservation objectives of each interest feature of each European site potentially affected.   |
|  | 3. Consider the policies and proposals in the plan and the changes that they may cause that may be relevant to the European sites. This is likely to involve estimating likely magnitude, duration, location and extent of effects of the changes as far as they may reasonably be predicted at this stage. |
|  | 4. Acknowledging the plan is not necessary for site management, would any elements of the plan be likely to have a significant effect on any interest feature, alone or in combination with other projects and plans, directly or indirectly?   |
|  | 5. Seek official screening statement from Natural England.  |
| AA2: Appropriate Assessment and ascertaining the effect on integrity | 6. Agree scope and method of the appropriate assessment and consultation period with Natural England.   |
|  | 7. Undertake an appropriate assessment of the implications for each affected site in light of its conservation objectives, using the best information, science and technical know-how available.  |
| AA3: Mitigation measures and alternative solutions                   | 8. Consider whether any possible adverse effect on integrity of any site could be avoided by changes to the plan, such as an alternative policy or proposal whilst still achieving its aims and objectives.   |
|  | 9. Draft a report on the Appropriate Assessment and consult Natural England and if necessary the public.  |
|  | 10. Taking account of Natural England and public representations, can it be ascertained that the plan will not adversely affect the integrity of any international site?  |

Chapters 1, 2 and 3 addressed steps 1 - 5 in Table 4.1 above. Since the screening statement must be sent for consultation with Natural England, it is useful to use this consultation window to seek Natural England's views on an appropriate methodology for completing the assessment (step 6). The following sections seek to address this.

## 4.2 Scope

Based on the significant effects that are thought likely, or possible to be experienced at the European sites in question as a result of activities resulting from the plan (as described in Chapter 3), a full appropriate assessment should investigate in more detail, and gather more evidence relating to the following subjects:

- Air quality
- Loss of supporting habitats
- Recreational Disturbance
- Water abstraction and consumption
- Water quality
- Coastal Squeeze

## 4.3 Methodology

It is proposed to follow the methodology proposed by David Tyldesley and Associates (draft, 2006), as described in Table 4.1. In addition in order to help understand the likely significant effects of the plan, geographic information systems (GIS) will be employed. This will enable the possible impacts of major development sites close to the boundaries of the European sites to be considered both alone and in combination with each other and other plans being assessed.

This may require the cooperation of neighbouring authorities to provide information on current and forthcoming major development areas, GIS data sets and approximate quanta of development.

A stakeholder engagement meeting was held on 21<sup>st</sup> April with representatives from other relevant organisations including Chichester Harbour Conservancy, The Environment Agency, Hampshire Wildlife Trust, Natural England and RSPB. The purpose of the meeting is to seek opinions on the screening statement, gain access to further data that is already available and come to agreement on the exact nature of the appropriate assessment.

In addition, with regards to water consumption and waste water treatment it may be prudent to seek the input of Southern Water (waste) and Portsmouth Water (fresh water).

## 4.4 Further Information Required

In order to inform the assessment, the following evidence will be gathered if it is available:

- Information on the relationship between current and future levels of air pollution and the current ratio of deposition to critical load values. Pollutants of interest are those pertaining to nitrogen or acid deposition;
- Information on water demand and growth predictions in relation to current and future availability of supply;
- The degree to which development of Havant Thicket Reservoir is component of future supply in point 2 above, and the effect its development could have on European sites (although permission for the development will itself be the subject of HRA);
- Survey data (if available) on the number and percentage of visitors originating from within Havant Borough (together with mode of travel, reason and frequency of visit, etc) at Kingly Vale, Butser Hill and Chichester and Langstone Harbour. Also, any predicted increases in visitor numbers, both as a consequence of the plan or otherwise; and
- The outcome of the Environment Agency' review of consents process and the implications this has for sewage treatment capacity within the borough, and any effect this may have on the phasing of development.

## 5 Conclusions

### 5.1 Summary

This document has set out the Council's statement on the need for Habitats Regulations Assessment for Havant Borough Council's Draft Core Strategy. It is the Council's opinion that in combination the plan may lead to air quality, recreational disturbance, water resource and quality, and habitat loss effects at the European sites in question.

### 5.2 Consultation Arrangements

This report is open to consultation between 12<sup>th</sup> June 2009 and 24<sup>th</sup> July 2009

All responses to the consultation should be sent to:

Planning Policy and Urban Design

Havant Borough Council

Civic Offices

Civic Centre Road

Havant

Hampshire

PO9 2AX

In responding to consultation, Havant Borough Council would be grateful if respondents could pay regard to the following questions:

1. Are all relevant European sites with the potential to be affected by the plan identified within this report? Do you know of any others that should also be included?
2. Have the correct vulnerabilities and opportunities facing each European site been identified? Can you think of others that have not been listed?
3. Do you agree with the type of effects that are considered in the report? Is it possible that other effects could be experienced at the European sites in question as a result of the plan?
4. Do you agree with the list of other plans and projects to be considered for the 'in combination' assessment? Are there other plans or projects that should be included?
5. Do you agree with the screening statement?

6. Are the scope and methodology, and intended sources of further information fit for the purpose of carrying out full appropriate assessment of the plan? Are there other techniques or data sources you could suggest?
7. Are you a data holder, and/or would you like to become more involved with the Habitats Regulations Assessment as it progresses?

### 5.3 Next Steps

Following consultation on this report, a full appropriate assessment for Havant Borough Council Draft Core Strategy will be undertaken, the results of which will be made available.



# APPENDICES

Appendix I: Ecological descriptions

Appendix II: Qualifying features

Appendix III: Conservation objectives

Appendix IV: Vulnerabilities and opportunities

## Appendix 1: Ecological descriptions

| Site                         | Type | Site Description   |
|------------------------------|------|--|
| Butser Hill                  | SAC  | <p>Butser Hill is situated on the east Hampshire chalk which forms part of the South Downs. Much of the site consists of CG2 <i>Festuca ovina</i> - <i>Avenula pratense</i> grassland. The site has a varied range of slope gradients and aspects which has a strong influence on the vegetation composition. A particular feature of the site is its lower plant assemblage. It has the richest terricolous lichen flora of any chalk grassland site in England, and also supports the distinctive <i>Scapanietum asperae</i> or southern hepatic mat association of leafy liverworts and mosses on north-facing chalk slopes. This association is very rare in the UK and Butser Hill supports the largest known example. The site exhibits various transitions between semi-natural dry grassland, chalk heath, mixed scrub and <i>Taxus baccata</i> woods.</p> <p>The combes of the south-east flank of Butser Hill support dense yew <i>Taxus baccata</i> woodland in association with scrub and chalk grassland. The yew is regenerating into the grassland and shows the classic interaction of these habitats in relation to grazing pressure.</p>   |
| Kingley Vale                 | SAC  | <p>Kingley Vale is one of the sites representing yew <i>Taxus baccata</i> woods on chalk, in the central southern part of its UK range. It has been selected primarily because of its size, as it is the largest area of yew woodland in Britain. It also shows excellent conservation of the full range of habitat structure and function.</p>  |
| Solent Isle of Wight lagoons | SAC  | <p>The Solent on the south coast of England encompasses a series of <b>Coastal lagoons</b>, including percolation, isolated and sluiced lagoons. The site includes a number of lagoons in the marshes in the Keyhaven - Pennington area, at Farlington Marshes in Chichester Harbour, behind the sea-wall at Bembridge Harbour and at Gilkicker, near Gosport. The lagoons show a range of salinities and substrates, ranging from soft mud to muddy sand with a high proportion of shingle, which support a diverse fauna including large populations of three notable species: the nationally rare foxtail stonewort <i>Lamprothamnium papulosum</i>, the nationally scarce lagoon sand shrimp <i>Gammarus insensibilis</i>, and the nationally scarce starlet sea anemone <i>Nematostella vectensis</i>. The lagoons in Keyhaven - Pennington Marshes are part of a network of ditches and ponds within the saltmarsh behind a sea-wall.</p> <p>Farlington Marshes is an isolated lagoon in marsh pasture that, although separated from the sea by a sea-wall, receives sea water during spring tides. The lagoon holds a well-developed low-medium salinity insect-dominated fauna. Gilkicker Lagoon is a sluiced lagoon with marked seasonal salinity fluctuation and supports a high species diversity. The lagoons at Bembridge</p> |

| Site                              | Type | Site Description  |
|-----------------------------------|------|---|
| Solent Maritime                   | SAC  | <p>Harbour have formed in a depression behind the sea-wall and sea water enters by percolation. Species diversity in these lagoons is high and the fauna includes very high densities of <i>N. vectensis</i>.</p> <p>The Solent encompasses a major estuarine system on the south coast of England with four coastal plain estuaries (Yar, Medina, King's Quay Shore, Hamble) and four bar-built estuaries (Newtown Harbour, Beaulieu, Langstone Harbour, Chichester Harbour). The site is the only one in the series to contain more than one physiographic sub-type of estuary and is the only cluster site. The Solent and its inlets are unique in Britain and Europe for their hydrographic regime of four tides each day, and for the complexity of the marine and estuarine habitats present within the area. Sediment habitats within the estuaries include extensive estuarine flats, often with intertidal areas supporting eelgrass <i>Zostera</i> spp. and green algae, sand and shingle spits, and natural shoreline transitions. The mudflats range from low and variable salinity in the upper reaches of the estuaries to very sheltered, almost fully marine, muds in Chichester and Langstone Harbours. Unusual features include the presence of very rare sponges in the Yar estuary and a sandy 'reef' of the polychaete <i>Sabellaria spinulosa</i> on the steep eastern side of the entrance to Chichester Harbour.</p> <p>Solent Maritime is the only site for smooth cord-grass <i>Spartina alterniflora</i> in the UK and is one of only two sites where significant amounts of small cord-grass <i>S. maritima</i> are found. It is also one of the few remaining sites for Townsend's cord-grass <i>S. x townsendii</i> and holds extensive areas of common cord-grass <i>Spartina anglica</i>, all four taxa thus occurring here in close proximity. It has additional historical and scientific interest as the site where <i>S. alterniflora</i> was first recorded in the UK (1829) and where <i>S. x townsendii</i> and, later, <i>S. anglica</i> first occurred.</p> <p>The Solent contains the second-largest aggregation of Atlantic salt meadows in south and south-west England. Solent Maritime is a composite site composed of a large number of separate areas of saltmarsh. In contrast to the Severn estuary, the salt meadows at this site are notable as being representative of the ungrazed type and support a different range of communities dominated by sea-purslane <i>Atriplex portulacoides</i>, common sea-lavender <i>Limonium vulgare</i> and thrift <i>Armeria maritima</i>. As a whole the site is less truncated by man-made features than other parts of the south coast and shows rare and unusual transitions to freshwater reedswamp and alluvial woodland as well as coastal grassland. Typical Atlantic salt meadow is still widespread in this site, despite a long history of colonisation by cord-grass <i>Spartina</i> spp.</p> |
| Chichester and Langstone Harbours | SPA  | <p>Chichester and Langstone Harbours are located on the south coast of England in Hampshire and West Sussex. They are large, sheltered estuarine basins comprising extensive sand and mudflats exposed at low tide. The two harbours are joined by a stretch of water that separates Hayling Island from the mainland. Tidal channels drain the basin and penetrate far inland. The mud-flats are rich in invertebrates and also support extensive beds of algae, especially Enteromorpha species, and eelgrasses</p>   |

| Site                         | Type   | Site Description   |
|------------------------------|--------|--|
|                              |        | Zostera spp. The basin contains a wide range of coastal habitats supporting important plant and animal communities. The site is of particular significance for waterbirds, especially in migration periods and in winter. It also supports important colonies of breeding terns.   |
| New Forest                   | SPA    | The New Forest is located in southern Hampshire, west of the Solent in southern England. It comprises a complex mosaic of habitats overlying mainly nutrient-poor soils over plateau gravels. The major components are the extensive wet and dry heaths with their rich valley mires and associated wet and dry grasslands, the ancient pasture woodlands and inclosure woodlands, the network of clean rivers and streams, and frequent permanent and temporary ponds. The area supports important populations of breeding birds associated with such habitats, including Nightjar <i>Caprimulgus europaeus</i> , Woodlark <i>Lullula arborea</i> and Dartford Warbler <i>Sylvia undata</i> . Breeding Honey Buzzard <i>Pernis apivorus</i> and wintering Hen Harriers <i>Circus cyaneus</i> are also notable.  |
| Pagham Harbour               | SPA    | Pagham Harbour is located on the south coast of England in West Sussex. It is an estuarine basin that comprises an extensive central area of saltmarsh and intertidal mud-flats, surrounded by lagoons, shingle, open water, reed swamp and wet permanent grassland. The mud-flats are rich in invertebrates and algae, and provide important feeding areas for birds. The lower saltmarsh is dominated by Common Cord-grass <i>Spartina anglica</i> , with patches of Glasswort <i>Salicornia spp.</i> The area supports breeding Little Tern <i>Sterna albifrons</i> in summer, as well as wintering concentrations of Ruff <i>Philomachus pugnax</i> and Pintail <i>Anas acuta</i> .  |
| Portsmouth Harbour           | SPA    | Portsmouth Harbour is located on the central south coast of England. It is a large industrialised estuary and includes one of the four largest expanses of mud-flats and tidal creeks on the south coast of Britain. The mud-flats support large beds of Narrow-leaved Eelgrass <i>Zostera angustifolia</i> and Dwarf Eelgrass <i>Z. noltii</i> , extensive green algae beds, mainly <i>Enteromorpha</i> species, and Sea Lettuce <i>Ulva lactuca</i> . Portsmouth Harbour has only a narrow connection to the sea via the Solent, and receives comparatively little fresh water, thus giving it an unusual hydrology. The site supports important numbers of wintering Dark-bellied Brent Goose <i>Branta b. bernicla</i> , which feed also in surrounding agricultural areas away from the SPA.  |
| Solent and Southampton Water | SPA    | The Solent and Southampton Water are located on the south English coast. The area covered extends from Hurst Spit to Hill Head along the south coast of Hampshire, and from Yarmouth to Whitecliff Bay along the north coast of the Isle of Wight. The site comprises a series of estuaries and harbours with extensive mud-flats and saltmarshes together with adjacent coastal habitats including saline lagoons, shingle beaches, reedbeds, damp woodland and grazing marsh. The mud-flats support beds of <i>Enteromorpha spp.</i> and <i>Zostera spp.</i> and have a rich invertebrate fauna that forms the food resource for the estuarine birds. In summer, the site is of importance for breeding seabirds, including gulls and four species of terns. In winter, the SPA holds a large and diverse assemblage of waterbirds, including geese, ducks and waders. Dark-bellied Brent Goose <i>Branta b. bernicla</i> also feed in surrounding areas of agricultural land outside the SPA. |
| Chichester and Langstone     | Ramsar | Chichester and Langstone Harbours are large, sheltered estuarine basins comprising extensive mud and sand flats exposed at low tide. The site is of particular significance for over-wintering wildfowl and waders and also a wide range of coastal and  |

| Site                         | Type   | Site Description  |
|------------------------------|--------|---|
| Harbours                     |        | transitional habitats supporting important plant and animal communities.  |
| New Forest                   | Ramsar | The New Forest is an area of semi-natural vegetation including valley mires, fens and wet heath within catchments whose uncultivated and undeveloped state buffer the mires against adverse ecological change. The habitats present are of high ecological quality and diversity with undisturbed transition zones. The suite of mires is regarded as the locus classicus of this type of mire in Britain. Other wetland habitats include numerous ponds of varying size and water chemistry including several ephemeral ponds and a network of small streams mainly acidic in character which have no lowland equivalent in the UK. The plant communities in the numerous valleys and seepage step mires show considerable variation, being affected especially by the nutrient content of groundwater. In the most nutrient-poor zones, Sphagnum bog-mosses, cross-leaved heath, bog asphodel, common cottongrass and similar species predominate. In more enriched conditions the communities are more fen-like. |
| Pagham Harbour               | Ramsar | Pagham Harbour comprises an extensive central area of saltmarsh and tidal mudflats. The lower saltmarsh is dominated by common cord-grass but also includes patches of glasswort. At higher levels sea-purslane is abundant. The area supports internationally important numbers of wintering pintail and nationally important numbers of dark-bellied brent goose, grey plover and black-tailed godwit.  |
| Portsmouth Harbour           | Ramsar | Portsmouth Harbour's mudflats support large beds of narrowleaved and dwarf eelgrass, extensive green alga and sea lettuce. The intertidal mudflat areas possess extensive beds of eelgrass <i>Zostera angustifolia</i> and <i>Zostera noltei</i> which support the grazing dark-bellied brent geese populations. The mud-snail <i>Hydrobia ulvae</i> is found at extremely high densities, which helps to support the wading bird interest of the site. Common cord-grass <i>Spartina anglica</i> dominates large areas of the saltmarsh and there are also extensive areas of green algae <i>Enteromorpha spp.</i> and sea lettuce <i>Ulva lactuca</i> . More locally the saltmarsh is dominated by sea purslane <i>Halimione portulacoides</i> which gradates to more varied communities at the higher shore levels. The site also includes a number of saline lagoons hosting nationally important species.  |
| Solent and Southampton Water | Ramsar | The area covered extends from Hurst Spit to Gilkicker Point along the south coast of Hampshire and along the north coast of the Isle of Wight. The site comprises of estuaries and adjacent coastal habitats including intertidal flats, saline lagoons, shingle beaches, saltmarsh, reedbeds, damp woodland, and grazing marsh. The diversity of habitats support internationally important numbers of wintering waterfowl, important breeding gull and tern populations and an important assemblage of rare invertebrates and plants.<br><br>The estuaries and harbours of the Solent are particularly sheltered and form the largest number and tightest cluster of small estuaries anywhere in Great Britain. The Solent and Isle of Wight system is notable for its large range and extent of different habitats.  |

| Site | Type | Site Description   |
|------|------|--|
|      |      | <p>The intertidal area is predominantly sedimentary in nature with extensive intertidal mud and sandflats within the sheltered harbours and areas of gravel and pebble sediments on more exposed beaches. These conditions combine to favour an abundant benthic fauna and green algae which support high densities of migrant and over-wintering wildfowl and waders. Eelgrass <i>Zostera</i> beds occur discontinuously along the north shore of the Isle of Wight and in a few places along the northern shore of The Solent.</p> <p>The Solent system supports a wide range of <b>saltmarsh</b> communities. Upper saltmarshes are dominated by sea purslane <i>Atriplex portulacoides</i>, sea plantain <i>Plantago maritima</i>, sea meadow grass <i>Puccinellia maritima</i> and sea lavender <i>Limonium vulgare</i>; locally thrift <i>Armeria maritima</i> and the nationally scarce golden samphire <i>Inula crithmoides</i> are abundant. Lower saltmarsh vegetation tends to be dominated by sea purslane, cord grass <i>Spartina spp.</i>, glasswort <i>Salicornia spp.</i> and sea-blite <i>Suaeda maritima</i>. Cord-grasses dominate much of the saltmarsh in Southampton Water and in parts of the Solent and it was the original location of the introduction of <i>Spartina alterniflora</i> and subsequent hybridisation with the native species.</p> <p>There are several shingle <b>spits</b> including Hurst spit, Needs Ore Point, Calshot spit and Newtown Harbour spits which support a characteristic shingle flora.</p> <p>A range of <b>grassland</b> types lie inshore of the intertidal zone including unimproved species-rich neutral and calcareous grasslands, brackish grazing marsh systems and reed dominated freshwater marshes.</p> <p>The brackish water <b>lagoons</b> associated with grazing marsh systems behind the seawalls, e.g. Keyhaven-Lymington, Gilkicker lagoon, and at Brading Marshes contain internationally important communities of rare and endangered invertebrates and plants.</p> |

(Source: Adapted from Joint Nature Conservation Committee Protected Sites Information, 2007)

## Appendix 2: Qualifying feature

| Site                         | Type | Qualifying Feature  | Listing          |
|------------------------------|------|---|------------------|
| Butser Hill                  | SAC  | Semi-natural dry grasslands and scrubland facies: on calcareous substrates (Festuco-Brometalia) | Annex I Habitat  |
|                              |      | <i>Taxus baccata</i> woods of the British Isles   | Annex I Habitat  |
| Kingley Vale                 | SAC  | Semi-natural dry grasslands and scrubland facies: on calcareous substrates (Festuco-Brometalia) | Annex I Habitat  |
|                              |      | <i>Taxus baccata</i> woods of the British Isles   | Annex I Habitat  |
| Solent Isle of Wight lagoons | SAC  | Coastal lagoons   | Annex I Habitat  |
| Solent Maritime              | SAC  | Estuaries   | Annex I Habitat  |
|                              |      | Spartina swards ( <i>Spartinion maritimae</i> )   | Annex I Habitat  |
|                              |      | Atlantic salt meadows ( <i>Glauco-Puccinellietalia maritimae</i> )                              | Annex I Habitat  |
|                              |      | Sandbanks - slightly covered by sea water all the time  | Annex I Habitat  |
|                              |      | Mudflats and sandflats - not submerged at low tide  | Annex I Habitat  |
|                              |      | Annual vegetation drift lines   | Annex I Habitat  |
|                              |      | Perennial vegetation of stony banks   | Annex I Habitat  |
|                              |      | Salicornia and other annuals colonising mud and sand  | Annex I Habitat  |
|                              |      | Shifting white dunes with <i>Ammophila arenaria</i>   | Annex I Habitat  |
|                              |      | Coastal lagoons   | Annex I Habitat  |
| South Wight Maritime         | SAC  | Desmoulin's whorl snail <i>Vertigo moulinsiana</i>  | Annex II Species |
|                              |      | Reefs   | Annex I Habitat  |
|                              |      | Vegetated sea cliffs of the Atlantic and Baltic coasts  | Annex I Habitat  |

| Site  | Type                            | Qualifying Feature  | Listing                              |
|---|---------------------------------|---|--------------------------------------|
| Chichester and Langstone Harbours   | SPA                             | Submerged or partially submerged sea caves  | Annex I Habitat                      |
|   |                                 | Little Tern <i>Sterna albifrons</i> , 100 pairs representing up to 4.2% of the breeding population in Great Britain (5 year mean, 1992-1996)  | Annex I EC Birds Directive 1979      |
|   |                                 | Sandwich Tern <i>Sterna sandvicensis</i> , 158 pairs representing up to 1.1% of the breeding population in Great Britain (1998)   | Annex I EC Birds Directive 1979      |
|   |                                 | Little Egret <i>Egretta garzetta</i> , 137 individuals representing up to 17.1% of the (on passage) population in Great Britain (Count as at 1998)  | Annex I EC Birds Directive 1979      |
|   |                                 | Ringed Plover <i>Charadrius hiaticula</i> , 2,471 (on passage) individuals representing up to 4.9% of the Europe/Northern Africa - wintering population (5 year peak mean 1991/2 - 1995/6)          | Annex I EC Birds Directive 1979      |
|   |                                 | Bar-tailed Godwit <i>Limosa lapponica</i> , 1,692 individuals representing up to 3.2% of the wintering population in Great Britain (5 year peak mean 1991/2 - 1995/6)                               | Annex I & II EC Birds Directive 1979 |
|   |                                 | Little Egret <i>Egretta garzetta</i> , 100 individuals representing up to 20.0% of the wintering population in Great Britain (Count as at 1998)   | Annex I EC Birds Directive 1979      |
|   |                                 | Black-tailed Godwit <i>Limosa limosa islandica</i> , 1,003 individuals representing up to 1.4% of the wintering Iceland - breeding population (5 year peak mean 1991/2 - 1995/6)                    | Annex II EC Birds Directive 1979     |
|   |                                 | Dark-bellied Brent Goose <i>Branta bernicla bernicla</i> , 17,119 individuals representing up to 5.7% of the wintering Western Siberia/Western Europe population (5 year peak mean 1991/2 - 1995/6) | Annex I EC Birds Directive 1979      |
|   |                                 | Dunlin <i>Calidris alpina alpina</i> , 44,294 individuals representing up to 3.2% of the wintering Northern Siberia/Europe/Western Africa population (5 year peak mean 1991/2 - 1995/6)             | Annex I EC Birds Directive 1979      |
|   |                                 | Grey Plover <i>Pluvialis squatarola</i> , 3,825 individuals representing up to 2.5% of the wintering Eastern Atlantic - wintering population (5 year peak mean 1991/2 - 1995/6)                     | Annex II EC Birds Directive 1979     |
|   |                                 | Redshank <i>Tringa totanus</i> , 1,788 individuals representing up to 1.2% of the wintering Eastern Atlantic - wintering population (5 year peak mean 1991/2 - 1995/6)                              | Annex II EC Birds Directive 1979     |
| Ringed Plover <i>Charadrius hiaticula</i> , 846 individuals representing up to 1.7% of the wintering Europe/Northern Africa - wintering population (5 year peak mean 1991/2 - 1995/6) | Annex I EC Birds Directive 1979 |   |                                      |
| Birds Directive Assemblage Qualification (the area qualifies by regularly supporting at   |                                 | Birds Directive Assemblage  |                                      |

| Site               | Type | Qualifying Feature  | Listing                          |
|--------------------|------|---|----------------------------------|
|                    |      | least 20,000 waterfowl): - Over winter, the area regularly supports 93,230 individual waterfowl (5yr peak mean 1998) (cf 93,142 individual waterfowl (5 year peak mean 1991/2 - 1995/6))              | Qualification, 79/409/EEC        |
| New Forest         | SPA  | Dartford Warbler <i>Sylvia undata</i> , 538 pairs representing at least 33.6% of the breeding population in Great Britain   | Annex I EC Birds Directive 1979  |
|                    |      | Honey Buzzard <i>Pernis apivorus</i> , 2 pairs representing at least 10.0% of the breeding population in Great Britain  | Annex I EC Birds Directive 1979  |
|                    |      | Nightjar <i>Caprimulgus europaeus</i> , 300 pairs representing at least 8.8% of the breeding population in Great Britain  | Annex I EC Birds Directive 1979  |
|                    |      | Woodlark <i>Lullula arborea</i> , 184 pairs representing at least 12.3% of the breeding population in Great Britain (Count as at 1997)  | Annex I EC Birds Directive 1979  |
|                    |      | Hen Harrier <i>Circus cyaneus</i> , 15 individuals representing at least 2.0% of the wintering population in Great Britain  | Annex I EC Birds Directive 1979  |
| Pagham Harbour     | SPA  | Little Tern <i>Sterna albifrons</i> , 7 pairs representing 0.3% of the breeding population in Great Britain (5 year mean, 1992-6)   | Annex I EC Birds Directive 1979  |
|                    |      | Common Tern <i>Sterna hirundo</i> , 0 breeding pairs (Count 1996)   | Annex I EC Birds Directive 1979  |
|                    |      | Dark-bellied Brent Goose <i>Branta bernicla bernicla</i> , 1794 individuals representing 0.6% of the wintering population in Great Britain (5 year peak mean, 1991/2 - 1995-6)                        | EC Birds Directive 1979          |
|                    |      | Ruff <i>Philomachus pugnax</i> , 10 individuals representing 1.4% of the wintering population in Great Britain (5 year mean, 1995-9)  | Annex I EC Birds Directive 1979  |
| Portsmouth Harbour | SPA  | Black-tailed Godwit <i>Limosa limosa islandica</i> , 31 individuals representing up to 0.4% of the wintering Iceland - breeding population (5 year peak mean 1991/2 - 1995/6)                         | Annex II EC Birds Directive 1979 |
|                    |      | Dark-bellied Brent Goose <i>Branta bernicla bernicla</i> , 2,847 individuals representing at least 0.9% of the wintering Western Siberia/Western Europe population (5 year peak mean 1991/2 - 1995/6) | EC Birds Directive 1979          |
|                    |      | Dunlin <i>Calidris alpina alpina</i> , 5,123 individuals representing up to 1% of the wintering Northern Siberia/Europe/Western Africa population (5 year peak mean 1991/2 - 1995/6)                  | EC Birds Directive 1979          |
|                    |      | Red-breasted Merganser <i>Mergus serrator</i> , 87 individuals representing up to 0.9% of the   | EC Birds Directive 1979          |

| Site                             | Type   | Qualifying Feature   | Listing  |
|----------------------------------|--------|--|--|
| Solent and Southampton Water     | SPA    | wintering North-western/Central Europe population (5year peak mean 1991/92 - 1995/96)  |  |
|                                  |        | Little Tern <i>Sterna albifrons</i> , 49 pairs representing at least 2.0% of the breeding population in Great Britain (5 year peak mean, 1993-1997)  | Annex I EC Birds Directive 1979                      |
|                                  |        | Sandwich Tern <i>Sterna sandvicensis</i> , 231 pairs representing at least 1.7% of the breeding population in Great Britain (5 year peak mean, 1993-1997)  | Annex I EC Birds Directive 1979                      |
|                                  |        | Common Tern <i>Sterna hirundo</i> , 267 pairs representing at least 2.2% of the breeding population in Great Britain (5 year peak mean, 1993-1997)   | Annex I EC Birds Directive 1979                      |
|                                  |        | Mediterranean Gull <i>Larus melanocephalus</i> , 2 pairs representing at least 20.0% of the breeding population in Great Britain (5 year peak mean, 1994-1998)   | Annex I EC Birds Directive 1979                      |
|                                  |        | Roseate Tern <i>Sterna dougallii</i> , 2 pairs representing at least 3.3% of the breeding population in Great Britain (5 year peak mean, 1993-1997)  | Annex I EC Birds Directive 1979                      |
|                                  |        | Black-tailed Godwit <i>Limosa limosa islandica</i> , 1,125 individuals representing at least 1.6% of the wintering Iceland - breeding population (5 year peak mean, 1992/3-1996/7)   | Annex II EC Birds Directive 1979                     |
|                                  |        | Dark-bellied Brent Goose <i>Branta bernicla bernicla</i> , 7,506 individuals representing at least 2.5% of the wintering Western Siberia/Western Europe population (5 year peak mean, 1992/3-1996/7)   | EC Birds Directive 1979                              |
|                                  |        | Ringed Plover <i>Charadrius hiaticula</i> , 552 individuals representing at least 1.1% of the wintering Europe/Northern Africa - wintering population (5 year peak mean, 1992/3-1996/7)  | EC Birds Directive 1979                              |
| Chichester and Langston Harbours | Ramsar | Teal <i>Anas crecca</i> , 4,400 individuals representing at least 1.1% of the wintering Northwestern Europe population (5 year peak mean, 1992/3-1996/7)   | Annex II EC Birds Directive 1979                     |
|                                  |        | Birds Directive Assemblage Qualification (the area qualifies by regularly supporting at least 20,000 waterfowl): - Over winter, the area regularly supports 51,361 individual waterfowl (5 year peak mean 1998) (cf 53,948 individual waterfowl (5year peak mean 1991/2 - 1995/6)) | Birds Directive Assemblage Qualification, 79/409/EEC |
| Chichester and Langston Harbours | Ramsar | Common Tern <i>Sterna hirundo</i> , 127 apparently occupied representing an average 1.2% of the breeding population in Great Britain (Seabird 2000 Census))  | Annex I EC Birds Directive 1979                      |
|                                  |        | Mediterranean Gull <i>Larus melanocephalus</i> , 47 apparently occupied nests representing an  | Annex I EC Birds Directive 1979                      |

| Site | Type | Qualifying Feature  | Listing                              |
|------|------|---|--------------------------------------|
|      |      | average 43.5% of the Great Britain breeding population (Seabird 2000 Census)  |                                      |
|      |      | Black-headed Gull <i>Larus ridibundus</i> , 3,180 apparently occupied nests, representing an average 2.4% of the GB breeding population (Seabird 2000 Census)                                 | EC Birds Directive 1979              |
|      |      | Little Egret <i>Egretta garzetta</i> , 224 individuals representing up to 13.5% of the (on passage) population in Great Britain (5 year peak mean 1998/99-2002/03)                            | Annex I EC Birds Directive 1979      |
|      |      | Oystercatcher <i>Haematopus ostralegus</i> , 3,403 individuals, representing an average 1% of the (on passage) GB population (5 year peak mean 1998/99-2002/03)                               | EC Birds Directive 1979              |
|      |      | Whimbrel <i>Numenius phaeopus</i> , 192 individuals, representing an average 6.4% of the (on passage) GB population (5 year peak mean 1998/99-2002/03 - spring peak)                          | Annex II EC Birds Directive 1979     |
|      |      | Eurasian Curlew <i>Numenius arquata</i> , 3,108 individuals, representing an average 2.1% of the (on passage) GB population (5 year peak mean 1998/99-2002/03)                                | Annex II EC Birds Directive 1979     |
|      |      | Bar-tailed Godwit <i>Limosa lapponica</i> , 1,189 individuals representing up to 1.9% of the wintering population in Great Britain (5 year peak mean 1998/99 - 2002/03)                       | Annex I & II EC Birds Directive 1979 |
|      |      | Red-breasted Merganser <i>Mergus serrator</i> , 306 individuals, representing an average 3.1% of the GB wintering population (5 year peak mean 1998/99-2002/03)                               | EC Birds Directive 1979              |
|      |      | Teal <i>Anas crecca</i> , 2,226 individuals representing an average 1.1% of the wintering GB population (5 year peak mean, 1998/99-2002/03)   | Annex I & II EC Birds Directive 1979 |
|      |      | Little Grebe <i>Tachybaptus ruficollis</i> , 131 individuals, representing an average 1.6% of the GB wintering population (5 year peak mean 1998/99-2002/03)                                  | EC Birds Directive 1979              |
|      |      | Bittern <i>Botaurus stellaris</i> , 1 individual, representing an average 1.1% of the GB wintering population (5 year peak mean 1998/99-2002/03)  | Annex I EC Birds Directive 1979      |
|      |      | Ramsar criterion 1: two outstanding estuarine basins  | Annex 1 Habitat                      |
|      |      | Ramsar criterion 5: winter assemblage of 76,480 waterfowl (5 year peak mean 1998/99 - 2002/03)  | EC Birds Directive 1979              |
|      |      | Ramsar criterion 6: Ringed plover, <i>Charadrius hiaticula</i> , Europe/Northwest Africa, 853 individuals, representing an average of 1.1% of the population (5 year peak mean 1998/9-2002/3) | Annex II EC Birds Directive 1979     |

| Site       | Type   | Qualifying Feature  | Listing                              |
|------------|--------|---|--------------------------------------|
|            |        | Ramsar criterion 6: Black-tailed godwit, <i>Limosa limosa islandica</i> , Iceland/W Europe, 906 individuals, representing an average of 2.5% of the population (5 year peak mean 1998/9-2002/3) | Annex II EC Birds Directive 1979     |
|            |        | Ramsar criterion 6: Common redshank, <i>Tringa totanus totanus</i> , 2577 individuals, representing an average of 1% of the population (5 year peak mean 1998/9-2002/3)                         | Annex II EC Birds Directive 1979     |
|            |        | Ramsar criterion 6: Dark-bellied brent goose, <i>Branta bernicla bernicla</i> , 12987 individuals, representing an average of 6% of the population (5 year peak mean 1998/9-2002/3)             | EC Birds Directive 1979              |
|            |        | Ramsar criterion 6: Common shelduck, <i>Tadorna tadorna</i> , NW Europe 1468 individuals, representing an average of 1.8% of the GB population (5 year peak mean 1998/9-2002/3)                 | EC Birds Directive 1979              |
|            |        | Ramsar criterion 6: Dunlin, <i>Calidris alpina alpina</i> , W Siberia/W Europe, 3436 individuals, representing an average of 2.5% of the population (5 year peak mean 1998/9-2002/3)            | EC Birds Directive 1979              |
|            |        | Ramsar criterion 6: Little tern, <i>Sterna albifrons albifrons</i> , W Europe, 130 apparently occupied nests, representing an average of 1.1% of the breeding population (Seabird 2000 Census)  | Annex I EC Birds Directive 1979      |
| New Forest | Ramsar | Southern damselfly <i>Coenagrion mercuriale</i>   | Article 17 Habitats Directive Report |
|            |        | Stag beetle <i>Lucanus cervus</i>   | Article 17 Habitats Directive Report |
|            |        | Great crested newt <i>Triturus cristatus</i>  | Article 17 Habitats Directive Report |
|            |        | Bullhead <i>Cottus gobio</i>  | Article 17 Habitats Directive Report |
|            |        | Brook lamprey <i>Lampetra planeri</i>   | Article 17 Habitats Directive Report |
|            |        | Dartford Warbler <i>Sylvia undata</i> , 538 pairs representing at least 33.6% of the breeding population in Great Britain   | Annex I EC Birds Directive 1979      |
|            |        | Hen Harrier <i>Circus cyaneus</i> , 15 individuals representing at least 2.0% of the wintering population in Great Britain  | Annex I EC Birds Directive 1979      |
|            |        | Ramsar criterion 1: outstanding valley mires - bog woodland   | Article 17 Habitats Directive Report |
|            |        | Ramsar criterion 1: outstanding valley mires - depressions on peat substrates of the Rhynchosporion   | Article 17 Habitats Directive Report |
|            |        | Ramsar criterion 1: outstanding wet heaths  | Article 17 Habitats Directive Report |
|            |        | Ramsar criterion 2: nationally rare species assemblage  | Article 17 Habitats Directive Report |

| Site                         | Type   | Qualifying Feature   | Listing                              |
|------------------------------|--------|--|--------------------------------------|
|                              |        | Ramsar criterion 3: species assemblage of importance to maintaining biogeographic biodiversity.  | Article 17 Habitats Directive Report |
| Pagham Harbour               | Ramsar | Ramsar criterion 6: Dark-bellied brent goose <i>Branta bernicla bernicla</i> , 2512 individuals, representing an average of 1.1% of the population (5 year peak mean 1998/9-2002/3)  | EC Birds Directive 1979              |
|                              |        | Ramsar criterion 6: Black-tailed godwit <i>Limosa limosa islandica</i> , Iceland/W Europe, 377 individuals, representing an average of 1% of the population (5 year peak mean 1998/9-2002/3)   | Annex II EC Birds Directive 1979     |
| Portsmouth Harbour           | Ramsar | Little Egret <i>Egretta garzetta</i> , 47 individuals representing an average 2.8% of the (on passage) population in Great Britain (5 year peak mean 1998/99-2002/03)  | Annex I EC Birds Directive 1979      |
|                              |        | Black-tailed Godwit <i>Limosa limosa islandica</i> , 343 individuals representing an average 2.2% of the (on passage) GB population (5 year peak mean, 1998/9-2002/3)  | Annex II EC Birds Directive 1979     |
|                              |        | Ramsar criterion 3: species assemblage of importance to maintaining biogeographic biodiversity   | EC Birds Directive 1979              |
|                              |        | Ramsar criterion 6: Dark-bellied Brent Goose <i>Branta bernicla bernicla</i> , 2,105 individuals, representing an average of 2.1% of the GB over-wintering population (5 year peak mean 1998/99-2002/03)   | EC Birds Directive 1979              |
| Solent and Southampton Water | Ramsar | Ramsar criterion 1: several outstanding wetland habitat types, including unusual double tidal flow, a major sheltered channel, saline lagoons, saltmarshes, estuaries, intertidal flats, shallow coastal waters, grazing marshes, reedbeds, coastal woodland and rocky boulder reefs | EC Birds Directive 1979              |
|                              |        | Ramsar criterion 2: nationally rare species assemblage   | EC Birds Directive 1979              |
|                              |        | Ramsar criterion 5: winter assemblage of 51,343 waterfowl (5 year peak mean 1998/99 - 2002/03)   | EC Birds Directive 1979              |
|                              |        | Ramsar criterion 6: Ringed plover, <i>Charadrius hiaticula</i> , Europe/Northwest Africa, 397 individuals, representing an average of 1.2% of the (on passage) GB population (5 year   | EC Birds Directive 1979              |

| Site | Type | Qualifying Feature  | Listing                          |
|------|------|---|----------------------------------|
|      |      | peak mean 1998/9- 2002/3)   |                                  |
|      |      | Ramsar criterion 6: Black-tailed godwit, <i>Limosa limosa islandica</i> , Iceland/W Europe, 1,240 individuals, representing an average of 3.5% of the over-wintering GB population (5 year peak mean 1998/9-2002/3) | Annex II EC Birds Directive 1979 |
|      |      | Ramsar criterion 6: Dark-bellied brent goose, <i>Branta bernicla bernicla</i> , 6,456 individuals, representing an average of 3% of the over-wintering GB population (5 year peak mean 1998/9-2002/3)               | EC Birds Directive 1979          |
|      |      | Ramsar criterion 6: Eurasian teal <i>Anas crecca</i> , NW Europe, 5,514 individuals, representing an average of 1.3% of the GB over-wintering population (5 year peak mean 1998/99-2002/03)                         | Annex II EC Birds Directive 1979 |

(Source: Adapted from Joint Nature Conservation Committee Protected Site Information, 2007)

## Appendix 3: Conservation Objectives

| Site                         | Type | Conservation Objectives   |
|------------------------------|------|---|
| Butser Hill                  | SAC  | <p>To maintain*, in favourable condition, the:</p> <ul style="list-style-type: none"> <li>- semi-natural dry grasslands and scrubland facies on calcareous substrates (Festuco-Brometalia)</li> <li>- <i>Taxus baccata</i> woods of the British Isles</li> </ul> <p>* maintenance implies restoration if the feature is not currently in favourable condition</p>   |
| Kingley Vale                 | SAC  | <p>To maintain*, in favourable condition, the:</p> <ul style="list-style-type: none"> <li>- <i>Taxus baccata</i> woods of the British Isles</li> <li>- Semi-natural dry grasslands and scrubland facies on calcareous substrates (Festuco-Brometalia)</li> </ul> <p>* maintenance implies restoration if the features is not currently in favourable condition.</p>   |
| Solent Isle of Wight lagoons | SAC  | <p><b>Gilkicker Lagoon</b></p> <p>The conservation objective for the European interest on the site is, subject to natural change, maintain* in favourable condition, the:</p> <ul style="list-style-type: none"> <li>- lagoon</li> </ul> <p>*maintenance implies restoration if the feature is not currently in favourable condition.</p> <p><b>Brading Marshes to St Helen's Ledges</b></p> <p>The conservation objective for the European interest on the site is, subject to natural change, maintain* in favourable condition, the:</p> <ul style="list-style-type: none"> <li>- lagoon</li> </ul> <p>*maintenance implies restoration if the feature is not currently in favourable condition.</p> <p><b>Langstone Harbour</b></p> <p>The conservation objective for the European interest on the site is, subject to natural change, maintain* in favourable condition, the:</p> <ul style="list-style-type: none"> <li>- lagoon</li> </ul> <p>*maintenance implies restoration if the feature is not currently in favourable condition.</p> <p><b>Hurst Castle &amp; Lyminster River Estuary</b></p> <p>The conservation objective for the European interest on the site is, subject to natural change, maintain* in favourable condition,</p> |

| Site               | Type | Conservation Objectives  |
|--------------------|------|--|
| Solent<br>Maritime | SAC  | <p>the:</p> <ul style="list-style-type: none"> <li>- lagoon</li> </ul> <p>*maintenance implies restoration if the feature is not currently in favourable condition.</p> <p><b>Medina estuary</b><br/> Subject to natural change, to maintain the following habitats in favourable condition (*), with particular reference to any dependent component special interest features (habitats, vegetation types, species, species assemblages etc.) for which the land is designated:</p> <ul style="list-style-type: none"> <li>- Littoral sediment</li> </ul> <p>(*) or restored to favourable condition if features are judged to be unfavourable.</p> <p><b>Yar estuary</b><br/> Subject to natural change, to maintain the following habitats in favourable condition (*), with particular reference to any dependent component special interest features (habitats, vegetation types, species, species assemblages etc.) for which the land is designated:</p> <ul style="list-style-type: none"> <li>- Littoral sediment</li> <li>- Coastal lagoon</li> </ul> <p>(*) or restored to favourable condition if features are judged to be unfavourable.</p> <p><b>Boulder and Hamstead Cliffs</b><br/> Subject to natural change, to maintain the following habitats in favourable condition (*), with particular reference to any dependent component special interest features (habitats, vegetation types, species, species assemblages etc.) for which the land is designated:</p> <ul style="list-style-type: none"> <li>- Littoral sediment</li> </ul> <p>(*) or restored to favourable condition if features are judged to be unfavourable.</p> <p><b>Langstone Harbour</b><br/> Subject to natural change, maintain* the estuary in favourable condition, in particular:</p> <ul style="list-style-type: none"> <li>- Saltmarsh communities</li> <li>- Intertidal mudflat communities</li> <li>- Intertidal sandflat communities</li> <li>- Intertidal mixed sediment communities</li> <li>- Subtidal sediment communities</li> </ul> <p>Subject to natural change, maintain* the Atlantic salt meadows (Glauco - Puccinellietalia) in favourable condition, in particular:</p> <ul style="list-style-type: none"> <li>- Pioneer marsh communities</li> <li>- Low marsh communities</li> <li>- Mid-marsh communities</li> </ul> |

| Site | Type | Conservation Objectives   |
|------|------|---|
|      |      | <ul style="list-style-type: none"> <li>- High-marsh communities</li> <li>- Transitional high marsh communities</li> </ul> <p>Subject to natural change, maintain*, in favourable condition, the:</p> <ul style="list-style-type: none"> <li>- saline lagoons</li> </ul> <p>*maintenance implies restoration if the feature is not currently in favourable condition.</p> <p><b>Hurst Castle and Lymington River estuary</b></p> <p>Subject to natural change, maintain* the Atlantic salt meadows (Glauco - Puccinellietalia) favourable condition, in particular:</p> <ul style="list-style-type: none"> <li>- Pioneer marsh communities</li> <li>- Low marsh communities</li> <li>- Mid-marsh communities</li> <li>- High-marsh communities</li> <li>- Transitional high marsh communities</li> </ul> <p>Subject to natural change, maintain* the saline lagoons in favourable condition</p> <p>*maintenance implies restoration if the feature is not currently in favourable condition.</p> <p><b>Eling and Bury Marshes</b></p> <p>Subject to natural change, maintain * the Atlantic salt meadows (Glauco - Puccinellietalia) favourable condition, in particular:</p> <ul style="list-style-type: none"> <li>- Pioneer marsh communities</li> <li>- Low marsh communities</li> <li>- Mid-marsh communities</li> <li>- High-marsh communities</li> <li>- Transitional high marsh communities</li> </ul> <p>Subject to natural change, maintain * the Cordgrass swards (Spartinion) in favourable condition, in particular:</p> <ul style="list-style-type: none"> <li>- Smooth cordgrass (<i>Spartina alterniflora</i>) Communities</li> <li>- Townsend's cordgrass (<i>Spartina townsendii</i>) Communities</li> </ul> <p>*maintenance implies restoration if the feature is not currently in favourable condition.</p> <p><b>Hythe to Calshot Marshes</b></p> <p>Subject to natural change, maintain* the Atlantic salt meadows (Glauco - Puccinellietalia) in favourable condition, in particular:</p> <ul style="list-style-type: none"> <li>- Pioneer marsh communities</li> <li>- Low marsh communities</li> <li>- Mid-marsh communities</li> </ul> |

| Site | Type | Conservation Objectives   |
|------|------|---|
|      |      | <ul style="list-style-type: none"> <li>- High-marsh communities</li> <li>- Transitional high marsh communities</li> </ul> <p>Subject to natural change, maintain* the Cordgrass swards (<i>Spartinion</i>) in favourable condition, in particular:</p> <ul style="list-style-type: none"> <li>- Smooth cordgrass (<i>Spartina alterniflora</i>) Communities</li> <li>- Townsend's cordgrass (<i>Spartina townsendii</i>) Communities</li> </ul> <p>*maintenance implies restoration if the feature is not currently in favourable condition.</p> <p><b>King's Quay Shore</b></p> <p>Subject to natural change, maintain* the estuary in favourable condition, in particular:</p> <ul style="list-style-type: none"> <li>- Saltmarsh communities</li> <li>- Intertidal mudflat communities</li> <li>- Intertidal sandflat communities</li> <li>- Intertidal mixed sediment communities</li> <li>- Subtidal sediment communities</li> </ul> <p>Subject to natural change, maintain* the Atlantic salt meadows (<i>Glauco - Puccinellietalia</i>) in favourable condition, in particular:</p> <ul style="list-style-type: none"> <li>- Pioneer marsh communities</li> <li>- Low marsh communities</li> <li>- Mid-marsh communities</li> <li>- High-marsh communities</li> <li>- Transitional high marsh communities</li> </ul> <p>*maintenance implies restoration if the feature is not currently in favourable condition.</p> <p><b>Lee-on-the-Solent to Itchen estuary</b></p> <p>Subject to natural change, maintain* the estuary in favourable condition, in particular:</p> <ul style="list-style-type: none"> <li>- Saltmarsh communities</li> <li>- Intertidal mudflat communities</li> <li>- Intertidal mixed sediment communities</li> <li>- Subtidal sediment communities</li> </ul> <p>Subject to natural change, maintain* the Atlantic salt meadows (<i>Glauco - Puccinellietalia</i>) in favourable condition, in particular:</p> <ul style="list-style-type: none"> <li>- Pioneer marsh communities</li> <li>- Low marsh communities</li> <li>- Mid-marsh communities</li> </ul> |

| Site | Type | Conservation Objectives   |
|------|------|---|
|      |      | <ul style="list-style-type: none"> <li>- High-marsh communities</li> <li>- Transitional high marsh communities</li> </ul> <p>*maintenance implies restoration if the feature is not currently in favourable condition.</p> <p><b>Lincegrove to Hackett's Marshes</b></p> <p>Subject to natural change, maintain* the Estuary in favourable condition, in particular:</p> <ul style="list-style-type: none"> <li>- Saltmarsh communities</li> <li>- Intertidal mudflat communities</li> <li>- Intertidal mixed sediment communities</li> <li>- Subtidal sediment communities</li> </ul> <p>Subject to natural change, maintain the Atlantic salt meadows (Glauco - Puccinellietalia) in favourable condition, in particular:</p> <ul style="list-style-type: none"> <li>- Pioneer marsh communities</li> <li>- Low marsh communities</li> <li>- Mid-marsh communities</li> <li>- High-marsh communities</li> <li>- Transitional high marsh communities</li> </ul> <p>*maintenance implies restoration if the feature is not currently in favourable condition.</p> <p><b>Lower Test Valley</b></p> <p>Subject to natural change, maintain* the Atlantic salt meadows (Glauco - Puccinellietalia) favourable condition, in particular:</p> <ul style="list-style-type: none"> <li>- Pioneer marsh communities</li> <li>- Low marsh communities</li> <li>- Mid-marsh communities</li> <li>- High-marsh communities</li> <li>- Transitional high marsh communities</li> </ul> <p>*maintenance implies restoration if the feature is not currently in favourable condition.</p> <p><b>Newtown Harbour</b></p> <p>Subject to natural change, maintain*, in favourable condition, the estuary, with particular reference to:</p> <ul style="list-style-type: none"> <li>- Saltmarsh communities</li> <li>- Intertidal mudflat communities</li> <li>- Intertidal mixed sediment communities</li> <li>- Subtidal sediment communities</li> </ul> |

| Site | Type | Conservation Objectives   |
|------|------|---|
|      |      | <p>Subject to natural change, maintain*, in favourable condition, the Atlantic salt meadows (Glauco - Puccinellietalia), with particular reference to:</p> <ul style="list-style-type: none"> <li>- Pioneer marsh communities</li> <li>- Low marsh communities</li> <li>- Mid-marsh communities</li> <li>- High-marsh communities</li> <li>- Transitional high marsh communities</li> </ul> <p>Subject to natural change, maintain*, in favourable condition, the Cordgrass swards (Spartinion) with particular reference to:</p> <ul style="list-style-type: none"> <li>- Small cordgrass (<i>Spartina maritima</i>) communities</li> </ul> <p>*maintenance implies restoration if the feature is not currently in favourable condition.</p> <p><b>North Solent</b></p> <p>Subject to natural change, maintain* the estuary in favourable condition, in particular:</p> <ul style="list-style-type: none"> <li>- Saltmarsh communities</li> <li>- Intertidal mudflat communities</li> <li>- Intertidal mixed sediment communities</li> <li>- Subtidal sediment communities</li> </ul> <p>Subject to natural change, maintain the Atlantic salt meadows (Glauco - Puccinellietalia) in favourable condition, in particular:</p> <ul style="list-style-type: none"> <li>- Pioneer marsh communities</li> <li>- Low marsh communities</li> <li>- Mid-marsh communities</li> <li>- High-marsh communities</li> <li>- Transitional high marsh communities</li> </ul> <p>*maintenance implies restoration if the feature is not currently in favourable condition.</p> <p><b>Thorness Bay</b></p> <p>Subject to natural change, maintain* the Estuary in favourable condition, in particular:</p> <ul style="list-style-type: none"> <li>- Intertidal mudflat communities</li> <li>- Intertidal mixed sediment communities</li> <li>- Subtidal sediment communities</li> </ul> <p>*maintenance implies restoration if the feature is not currently in favourable condition.</p> <p><b>Upper Hamble estuary and woods</b></p> <p>Subject to natural change, maintain* the estuary in favourable condition, in particular:</p> |

| Site                    | Type | Conservation Objectives   |
|-------------------------|------|---|
| South Wight<br>Maritime | SAC  | <ul style="list-style-type: none"> <li>- Saltmarsh communities</li> <li>- Intertidal mudflat communities</li> <li>- Intertidal mixed sediment communities</li> <li>- Subtidal sediment communities</li> </ul> <p>Subject to natural change, maintain the Atlantic salt meadows (Glauco - Puccinellietalia) in favourable condition, in particular:</p> <ul style="list-style-type: none"> <li>- Pioneer marsh communities</li> <li>- Low marsh communities</li> <li>- Mid-marsh communities</li> <li>- High-marsh communities</li> <li>- Transitional high marsh communities</li> </ul> <p>* maintenance implies restoration if the feature is not currently in favourable condition.</p> <p><b>Bonchurch Landslips</b></p> <p>Subject to natural change, to maintain the following habitats and geological features in favourable condition (*), with particular reference to any dependent component special interest features (habitats, vegetation types, species, species assemblages etc.) for which the land is designated:</p> <p>Habitat Types represented (Biodiversity Action Plan categories):</p> <ul style="list-style-type: none"> <li>- Broad-leaved woodland</li> <li>- Calcareous grassland-</li> <li>- Acid grassland</li> <li>- Fen, swamp and marsh</li> <li>- Neutral grassland</li> <li>- Supralittoral rock</li> </ul> <p>(*) or restored to favourable condition if features are judged to be unfavourable.</p> <p><b>Bembridge Down</b></p> <p>Subject to natural change, to maintain*, in favourable condition, the:</p> <ul style="list-style-type: none"> <li>- vegetated sea cliffs of the Atlantic and Baltic coasts</li> </ul> <p>Subject to natural change, to maintain*, the reefs in favourable condition, in particular:</p> <ul style="list-style-type: none"> <li>- Rocky shore communities</li> <li>- Sea cave communities</li> </ul> <p>*maintenance implies restoration if the feature is not currently in favourable condition.</p> |

| Site                              | Type | Conservation Objectives   |
|-----------------------------------|------|---|
| Chichester and Langstone Harbours | SPA  | <p><b>Chichester Harbour</b><br/> To maintain*, in favourable condition, the habitats for the populations of Annex 1 species + of European importance, with particular reference to:</p> <ul style="list-style-type: none"> <li>- shingle</li> <li>- shallow coastal waters</li> </ul> <p>+ sandwich tern, common tern and little tern</p> <p>To maintain*, in favourable condition, the habitats for the populations of migratory bird species + of European importance, with particular reference to:</p> <ul style="list-style-type: none"> <li>- coastal grassland</li> <li>- standing water</li> <li>- shallow coastal waters</li> <li>- saltmarsh</li> <li>- intertidal sand and mudflat</li> </ul> <p>+ grey plover, sanderling, dunlin, redshank, dark bellied brent geese, shelduck and teal.</p> <p>To maintain*, in favourable condition, the habitats for the populations of waterfowl that contribute to the wintering waterfowl assemblage of European importance, with particular reference to:</p> <ul style="list-style-type: none"> <li>- coastal grassland</li> <li>- standing water</li> <li>- shallow coastal waters</li> <li>- saltmarsh</li> <li>- intertidal sand and mudflats</li> </ul> <p><b>Langstone Harbour</b><br/> To maintain*, in favourable condition, the habitats for the populations of Annex 1 species + of European importance, with particular reference to:</p> <ul style="list-style-type: none"> <li>- shingle</li> <li>- shallow coastal waters</li> </ul> <p>+ sandwich tern, common tern and little tern.</p> <p>To maintain*, in favourable condition, the habitats for the populations of migratory bird species + of European importance, with particular reference to:</p> <ul style="list-style-type: none"> <li>- coastal grassland</li> </ul> |

| Site           | Type | Conservation Objectives   |
|----------------|------|---|
|                |      | <ul style="list-style-type: none"> <li>- standing water</li> <li>- shallow coastal waters</li> <li>- saltmarsh</li> <li>- intertidal sand and mudflat</li> </ul> <p>+ grey plover, sanderling, dunlin, redshank, dark bellied brent geese, shelduck and teal.</p> <p>To maintain*, in favourable condition, the habitats for the populations of waterfowl that contribute to the wintering waterfowl assemblage of European importance, with particular reference to:</p> <ul style="list-style-type: none"> <li>- coastal grassland</li> <li>- standing water</li> <li>- shallow coastal waters</li> <li>- saltmarsh</li> <li>- intertidal sand and mudflat</li> </ul>                                 |
| New Forest     | SPA  | <p>To maintain*, in favourable condition, the habitats for the populations of Annex 1 bird species + of European importance, with particular reference to:</p> <ul style="list-style-type: none"> <li>- Dry heathland</li> <li>- Dry grassland</li> <li>- Inclosure and pasture woodlands</li> </ul> <p>+ honey buzzard, nightjar, woodlark, dartford warbler and hen harrier.</p> <p>* maintenance implies restoration if the feature is not currently in favourable condition.</p>  |
| Pagham Harbour | SPA  | <p>To maintain*, in favourable condition, the habitat for the populations of Annex 1 species + of European importance, with particular reference to:</p> <ul style="list-style-type: none"> <li>- intertidal sand and mudflats</li> <li>- wet neutral grassland</li> <li>- vegetated shingle</li> <li>- shallow coastal water,</li> </ul> <p>+ Ruff, Little Tern, Common Tern.</p> <p>To maintain*, in favourable condition, the habitats for the population of migratory bird species + of European importance, with particular reference to:</p> <ul style="list-style-type: none"> <li>- intertidal sand and mudflats</li> <li>- wet neutral grassland</li> </ul> <p>+ Dark-bellied Brent Goose.</p> |

| Site                         | Type | Conservation Objectives  |
|------------------------------|------|--|
| Portsmouth Harbour           | SPA  | <p>* maintenance implies restoration if the feature is not currently in favourable condition.</p> <p>To maintain*, in favourable condition, the habitats for the populations of migratory bird species + of European importance, with particular reference to:</p> <ul style="list-style-type: none"> <li>- coastal grassland</li> <li>- shallow coastal waters</li> <li>- saltmarsh</li> <li>- intertidal sand and mudflat</li> </ul> <p>+ Dark bellied brent geese <i>Branta bernicla bernicla</i>, red-breasted merganser <i>Mergus serrator</i>, black-tailed godwit <i>Limosa limosa</i> and dunlin <i>Calidris alpina</i>.</p> <p>*maintenance implies restoration if the feature is not currently in favourable condition.</p>  |
| Solent and Southampton Water | SPA  | <p><b>Medina estuary</b></p> <p>Subject to natural change, to maintain the following habitats in favourable condition (*), with particular reference to any dependent component special interest features (habitats, vegetation types, species, species assemblages etc.) for which the land is designated: Habitat Types represented (Biodiversity Action Plan categories)</p> <ul style="list-style-type: none"> <li>- Neutral grassland</li> <li>- Fen, marsh and swamp</li> <li>- Broad-leaved woodland</li> <li>- Littoral sediment</li> </ul> <p>(*) or restored to favourable condition if features are judged to be unfavourable.</p> <p><b>Yar estuary</b></p> <p>Subject to natural change, to maintain the following habitats in favourable condition (*), with particular reference to any dependent component special interest features (habitats, vegetation types, species, species assemblages etc.) for which the land is designated: Habitat Types represented (Biodiversity Action Plan categories)</p> <ul style="list-style-type: none"> <li>- Grazing marsh comprising neutral grassland</li> <li>- Supra Littoral sediment</li> <li>- Littoral sediment</li> <li>- Coastal lagoon</li> </ul> <p>(*) or restored to favourable condition if features are judged to be unfavourable.</p> <p><b>Brading Marshes to St Helen's Ledges</b></p> <p>To maintain*, in favourable condition, the habitats for the populations of migratory bird species + of European importance, with</p> |

| Site | Type | Conservation Objectives  |
|------|------|--|
|      |      | <p>particular reference to:</p> <ul style="list-style-type: none"> <li>- coastal grassland</li> <li>- standing water</li> <li>- boulder and cobble shores</li> <li>- saltmarsh</li> <li>- intertidal sand and mudflat</li> </ul> <p>+ dark-bellied brent goose, teal, ringed plover and black-tailed godwit.</p> <p>To maintain*, in favourable condition, the habitats for the populations of waterfowl that contribute to the wintering waterfowl assemblage of European importance, with particular reference to:</p> <ul style="list-style-type: none"> <li>- coastal grassland</li> <li>- standing water</li> <li>- boulder and cobble shores</li> <li>- saltmarsh</li> <li>- intertidal mudflats and sandflats</li> </ul> <p>*maintenance implies restoration if the feature is not currently in favourable condition.</p> <p><b>Lymington River Reedbeds</b></p> <p>To maintain*, in favourable condition, the habitats for the populations of migratory bird species + of European importance, with particular reference to:</p> <ul style="list-style-type: none"> <li>- coastal grassland</li> <li>- standing water</li> <li>- reedbed</li> <li>- saltmarsh</li> <li>- intertidal mudflats and sandflats</li> </ul> <p>+ dark-bellied brent goose, teal ringed plover and black-tailed godwit.</p> <p>To maintain*, in favourable condition, the habitats for the populations of waterfowl that contribute to the wintering waterfowl assemblage of European importance, with particular reference to:</p> <ul style="list-style-type: none"> <li>- coastal grassland</li> <li>- standing water</li> <li>- reedbed</li> <li>- saltmarsh</li> </ul> |

| Site | Type | Conservation Objectives  |
|------|------|--|
|      |      | <ul style="list-style-type: none"> <li>- intertidal mudflats and sandflats</li> </ul> <p>*maintenance implies restoration if the feature is not currently in favourable condition.</p> <p><b>Ryde Sands and Wooton Creek</b></p> <p>To maintain*, in favourable condition, the habitats for populations of migratory bird species + of European importance, with particular reference to:</p> <ul style="list-style-type: none"> <li>- intertidal mudflats and sandflats</li> <li>+ dark-bellied brent goose, teal and ringed plover.</li> </ul> <p>To maintain*, in favourable condition, the habitats for the populations of waterfowl that contribute to the wintering waterfowl assemblage of European importance, with particular reference to:</p> <ul style="list-style-type: none"> <li>- intertidal sand and mudflats</li> </ul> <p>*maintenance implies restoration if the feature is not currently in favourable condition.</p> <p><b>Sowley Pond</b></p> <p>To maintain*, in favourable condition, the habitats for the populations of migratory bird species +of European importance, with particular reference to:</p> <ul style="list-style-type: none"> <li>- coastal grassland</li> <li>- standing water</li> <li>+ teal.</li> </ul> <p>To maintain*, in favourable condition, the habitats for the populations of waterfowl that contribute to the wintering waterfowl assemblage of European importance, with particular reference to:</p> <ul style="list-style-type: none"> <li>- coastal grassland</li> <li>- standing water</li> </ul> <p>*maintenance implies restoration if the feature is not currently in favourable condition.</p> <p><b>Titchfield Haven</b></p> <p>To maintain*, in favourable condition, the habitats for the populations of Annex 1 species + of European importance, with particular reference to:</p> <ul style="list-style-type: none"> <li>- Reedbeds and open water with marshy grassland and scrub</li> <li>+ Common Tern.</li> </ul> <p>To maintain*, in favourable condition, the habitats for the populations of migratory bird species +of European importance, with particular reference to:</p> <ul style="list-style-type: none"> <li>- Reedbed and open water with marshy grassland and scrub</li> </ul> |

| Site | Type | Conservation Objectives   |
|------|------|---|
|      |      | <p>+ teal, ringed plover and black-tailed godwit.</p> <p>To maintain*, in favourable condition, the habitats for the populations of waterfowl that contribute to the wintering waterfowl assemblage of European importance, with particular reference to:</p> <ul style="list-style-type: none"> <li>- Reedbed and open water with marshy grassland and scrub</li> </ul> <p>*maintenance implies restoration if the feature is not currently in favourable condition.</p> <p><b>Hurst Castle and Lymington River</b></p> <p>To maintain*, in favourable condition, the habitats for the populations of the Annex 1 species + of European importance, with particular reference to:</p> <ul style="list-style-type: none"> <li>- intertidal with saltmarsh and shingle</li> </ul> <p>+ Mediterranean gull, Sandwich Tern, Common Tern, Little Tern</p> <p>To maintain*, in favourable condition, the habitats for the populations of migratory bird species + of European importance, with particular reference to:</p> <ul style="list-style-type: none"> <li>- intertidal with saltmarsh and shingle</li> <li>- grazing marsh</li> <li>- permanent grassland</li> </ul> <p>+ dark-bellied brent goose, teal, ringed plover and black-tailed godwit</p> <p>To maintain*, in favourable condition, the habitats for the populations of waterfowl that contribute to the wintering waterfowl assemblage of European importance, with particular reference to:</p> <ul style="list-style-type: none"> <li>- intertidal with saltmarsh and shingle</li> <li>- grazing marsh</li> <li>- permanent grassland</li> <li>- reedbed/open water</li> <li>- vegetated shingle</li> <li>- saline lagoons</li> </ul> <p>*maintenance implies restoration if the feature is not currently in favourable condition.</p> <p><b>Eling and Bury Marshes</b></p> <p>To maintain*, in favourable condition, the habitats for the populations of migratory bird species + of European importance, with particular reference to:</p> <ul style="list-style-type: none"> <li>- intertidal mudflat</li> <li>- saltmarsh and fringing habitats</li> </ul> |

| Site | Type | Conservation Objectives   |
|------|------|---|
|      |      | <p>+ dark-bellied brent goose, teal, ringed plover and black-tailed godwit.</p> <p>To maintain*, in favourable condition, the habitats for the populations of waterfowl that contribute to the wintering waterfowl assemblage of European importance, with particular reference to:</p> <ul style="list-style-type: none"> <li>- intertidal mudflat</li> <li>- saltmarsh and fringing habitats</li> </ul> <p>*maintenance implies restoration if the feature is not currently in favourable condition.</p> <p><b>Hythe to Calshot Marshes</b></p> <p>To maintain*, in favourable condition , the habitats for the populations of migratory bird species + of European importance, with particular reference to:</p> <ul style="list-style-type: none"> <li>- saltmarsh</li> <li>- intertidal mudflats and sandflats</li> <li>- mixed sediment shores</li> </ul> <p>+ dark-bellied brent goose, teal, ringed plover and black-tailed godwit.</p> <p>To maintain*, in favourable condition , the habitats for the populations of waterfowl that contribute to the wintering waterfowl assemblage of European importance, with particular reference to:</p> <ul style="list-style-type: none"> <li>- saltmarsh</li> <li>- intertidal mudflats and sandflats</li> <li>- mixed sediment shores</li> </ul> <p>*maintenance implies restoration if the feature is not currently in favourable condition.</p> <p><b>King's Quay Shore</b></p> <p>To maintain*, in favourable condition, the habitats for the populations of migratory bird species + of European importance, with particular reference to:</p> <ul style="list-style-type: none"> <li>- saltmarsh</li> <li>- intertidal mudflats and sandflats</li> </ul> <p>+ dark-bellied brent goose and teal.</p> <p>To maintain*, in favourable condition, the habitats for the populations of waterfowl that contribute to the wintering waterfowl assemblage of European importance, with particular reference to:</p> <ul style="list-style-type: none"> <li>- saltmarsh</li> <li>- intertidal mudflats and sandflats</li> </ul> <p>*maintenance implies restoration if the feature is not currently in favourable condition.</p> |

| Site | Type | Conservation Objectives  |
|------|------|--|
|      |      | <p><b>Lee-on-the-Solent to Itchen estuary</b></p> <p>To maintain*, in favourable condition, the habitats for the populations of migratory bird species + of European importance, with particular reference to:</p> <ul style="list-style-type: none"> <li>- Estuarine habitats</li> <li>- intertidal mudflats and shingle</li> <li>- coastal and inundation grasslands</li> </ul> <p>+ Dark-bellied Brent Goose, Teal, Ringed Plover and Black-tailed Godwit.</p> <p>To maintain*, in favourable condition, the habitats for the populations of waterfowl that contribute to the wintering waterfowl assemblage of European importance, with particular reference to:</p> <ul style="list-style-type: none"> <li>- Estuarine habitats</li> <li>- intertidal mudflats and shingle</li> <li>- coastal and inundation grasslands</li> <li>- reedbeds</li> </ul> <p>*maintenance implies restoration if the feature is not currently in favourable condition.</p> <p><b>Lincegrove to Hackett's Marshes</b></p> <p>To maintain*, in favourable condition, the habitats for the populations of migratory bird species + of European importance, with particular reference to:</p> <ul style="list-style-type: none"> <li>- Estuarine and marginal habitats</li> </ul> <p>+ dark-bellied brent goose, teal, ringed plover and black-tailed godwit.</p> <p>To maintain*, in favourable condition, the habitats for the populations of waterfowl that contribute to the wintering waterfowl assemblage of European importance, with particular reference to:</p> <ul style="list-style-type: none"> <li>- Estuarine and marginal habitats</li> </ul> <p>*maintenance implies restoration if the feature is not currently in favourable condition.</p> <p><b>Lower Test Valley</b></p> <p>To maintain*, in favourable condition, the habitats for the populations of migratory bird species +of European importance, with particular reference to:</p> <ul style="list-style-type: none"> <li>- marshy grassland/fen meadow</li> <li>- grazed swamp</li> <li>- reedbed</li> <li>- saltmarsh</li> </ul> <p>+ dark-bellied brent goose, teal ringed plover and black-tailed godwit.</p> |

| Site | Type | Conservation Objectives   |
|------|------|---|
|      |      | <p>To maintain*, in favourable condition, the habitats for the populations of waterfowl that contribute to the wintering waterfowl assemblage of European importance, with particular reference to:</p> <ul style="list-style-type: none"> <li>- marshy grassland/fen meadow</li> <li>- grazed swamp</li> <li>- reedbed</li> <li>- saltmarsh.</li> </ul> <p>*maintenance implies restoration if the feature is not currently in favourable condition.</p> <p><b>Newtown Harbour</b></p> <p>To maintain*, in favourable condition, the habitats for the populations of Annex 1 species + of European importance, with particular reference to:</p> <ul style="list-style-type: none"> <li>- shingle</li> <li>- saltmarsh</li> <li>- intertidal mudflats and sandflats</li> <li>- shallow coastal waters</li> </ul> <p>+ Sandwich tern, Common tern, Mediterranean Gull</p> <p>To maintain*, in favourable condition, the habitats for populations of migratory bird species + of European importance, with particular reference to:</p> <ul style="list-style-type: none"> <li>- coastal grassland</li> <li>- standing water</li> <li>- saltmarsh</li> <li>- intertidal mudflats and sandflats</li> </ul> <p>+ dark-bellied brent goose, teal, ringed plover and black-tailed godwit.</p> <p>To maintain*, in favourable condition, the habitats for the populations of waterfowl that contribute to the wintering waterfowl assemblage of European importance, with particular reference to:</p> <ul style="list-style-type: none"> <li>- coastal grassland</li> <li>- standing water</li> <li>- saltmarsh</li> <li>- intertidal mudflats and sandflats</li> </ul> <p>*maintenance implies restoration if the feature is not currently in favourable condition.</p> |

| Site | Type | Conservation Objectives  |
|------|------|--|
|      |      | <p><b>North Solent</b></p> <p>To maintain*, in favourable condition , the habitats for the populations of Annex 1 species + of European importance, with particular reference to:</p> <ul style="list-style-type: none"> <li>- standing water</li> <li>- shallow coastal waters</li> <li>- shingle</li> <li>- saltmarsh</li> <li>- intertidal mudflats and sandflats</li> </ul> <p>+ mediterranean gull, sandwich tern, roseate tern, common tern and little tern.</p> <p>To maintain*, in favourable condition, the habitats for the populations of migratory bird species + of European importance, with particular reference to:</p> <ul style="list-style-type: none"> <li>- coastal grassland</li> <li>- standing water</li> <li>- saltmarsh</li> <li>- intertidal mudflats and sandflats</li> </ul> <p>+ dark-bellied brent goose, teal, ringed plover and black-tailed godwit.</p> <p>To maintain*, in favourable condition, the habitats for the populations of waterfowl that contribute to the wintering waterfowl assemblage of European importance, with particular reference to:</p> <ul style="list-style-type: none"> <li>- coastal grassland</li> <li>- standing water</li> <li>- saltmarsh</li> <li>- intertidal mudflats and sandflats</li> </ul> <p>*maintenance implies restoration if the feature is not currently in favourable condition.</p> <p><b>Thorness Bay</b></p> <p>To maintain*, in favourable condition, the habitats for the populations of migratory bird species of European importance, with particular reference to:</p> <ul style="list-style-type: none"> <li>- coastal grassland</li> <li>- standing water</li> <li>- saltmarsh</li> <li>- reedbeds</li> <li>- intertidal mudflats and sandflats</li> </ul> |

| Site | Type | Conservation Objectives  |
|------|------|--|
|      |      | <ul style="list-style-type: none"> <li>- mixed sediment shores</li> <li>+ Dark-bellied brent goose, teal, ringed plover, black-tailed godwit</li> </ul> <p>To maintain*, in favourable condition, the habitats for the populations of waterfowl that contribute to the wintering waterfowl assemblage of European importance, with particular reference to:</p> <ul style="list-style-type: none"> <li>- coastal grassland</li> <li>- standing water</li> <li>- saltmarsh</li> <li>- reedbeds</li> <li>- intertidal mudflats and sandflats</li> <li>- mixed sediment shores</li> </ul> <p>*maintenance implies restoration if the feature is not currently in favourable condition.</p> <p><b>Upper Hamble estuary and woods</b></p> <p>To maintain*, in favourable condition, the habitats for the populations of migratory bird species + of European importance, with particular reference to:</p> <ul style="list-style-type: none"> <li>- Estuarine and marginal habitats</li> <li>+ dark-bellied brent goose, teal, ringed plover and black-tailed godwit.</li> </ul> <p>To maintain*, in favourable condition, the habitats for the populations of waterfowl that contribute to the wintering waterfowl assemblage of European importance, with particular reference to:</p> <ul style="list-style-type: none"> <li>- Estuarine and marginal habitats</li> </ul> <p>*maintenance implies restoration if the feature is not currently in favourable condition.</p> <p><b>Whitecliff Bay and Bembridge Ledges</b></p> <p>To maintain*, in favourable condition, the habitats for the populations of migratory bird species + of European importance, with particular reference to:</p> <ul style="list-style-type: none"> <li>- intertidal mudflats and sandflats</li> <li>- boulder and cobble shores</li> <li>+ dark-bellied brent goose and ringed plover.</li> </ul> <p>To maintain*, in favourable condition, the habitats for the populations of waterfowl that contribute to the wintering waterfowl assemblage of European importance, with particular reference to:</p> <ul style="list-style-type: none"> <li>- intertidal mudflats and sandflats</li> <li>- boulder and cobble shores</li> </ul> |

| Site                             | Type   | Conservation Objectives   |
|----------------------------------|--------|---|
|                                  |        | *maintenance implies restoration if the feature is not currently in favourable condition. |
| Chichester and Langston Harbours | Ramsar | n/a   |
| New Forest                       | Ramsar | n/a   |
| Pagham Harbour                   | Ramsar | n/a   |
| Portsmouth Harbour               | Ramsar | n/a   |
| Solent and Southampton Water     | Ramsar | n/a   |

Source: Adapted from Joint Nature Conservation Committee  
Protected Site Information, 2007)

## Appendix 4: Vulnerabilities and Opportunities

| Site         | Type | Vulnerabilities   | Opportunities   |
|--------------|------|---|---|
| Butser Hill  | SAC  | <ul style="list-style-type: none"> <li>• Below-average rainfall / drought</li> <li>• Extent and condition of habitat cover (including species composition, vegetative cover and characteristic communities)</li> <li>• Inappropriate control of vegetation - burning, grazing, mowing or clearing of deadwood</li> <li>• Toxic contamination - synthetic compounds</li> <li>• Toxic contamination - non-synthetic compounds</li> <li>• Non-toxic contamination - changes in nutrient loading</li> <li>• Biological disturbance - microbial pathogens</li> <li>• Biological disturbance - non-native species, translocation or introduction</li> </ul> | <ol style="list-style-type: none"> <li>1. Encouragement of adjacent landowners to enter a scheme supporting less intensive agricultural regimes to reduce vulnerability to eutrophication.</li> <li>2. Potential purchase of adjacent land by Hampshire County Council, so that it can be managed as an effective buffer zone.</li> </ol> |
| Kingley Vale | SAC  | <ul style="list-style-type: none"> <li>• Below-average rainfall / drought</li> <li>• Extent and condition of habitat cover (including species composition, vegetative cover and characteristic communities)</li> <li>• Inappropriate control of vegetation - burning, grazing, mowing or clearing of deadwood</li> <li>• Toxic contamination - synthetic compounds</li> <li>• Toxic contamination - non-synthetic compounds</li> <li>• Non-toxic contamination - changes in nutrient loading</li> <li>• Biological disturbance - microbial pathogens</li> <li>• Biological disturbance - non-native species, translocation or introduction</li> </ul> | <ol style="list-style-type: none"> <li>1. Management of resident deer population.</li> <li>2. Improved grazing regime.</li> </ol>   |

| Site                         | Type | Vulnerabilities   | Opportunities   |
|------------------------------|------|---|---|
| Solent Isle of Wight lagoons | SAC  | <ul style="list-style-type: none"> <li>• Water level management</li> <li>• Extent and condition of habitat cover (including species composition, vegetative cover and characteristic communities)</li> <li>• Coastal defences / coastal squeeze</li> <li>• Sea level rise</li> <li>• Isolating barrier - presence and nature</li> <li>• Toxic contamination - synthetic compounds</li> <li>• Toxic contamination - non-synthetic compounds</li> <li>• Non-toxic contamination - changes in nutrient loading</li> <li>• Non-toxic contamination - changes in organic loading</li> <li>• Non-toxic contamination - changes in turbidity</li> <li>• Non-toxic contamination - changes in salinity</li> </ul> | 1. Management of hydrological regime (quality and quantity) through Review of Consents, Biodiversity Action Plan, Water Level Management Plan and other coastal strategies (including flood defence). |
| Solent Maritime              | SAC  | <ul style="list-style-type: none"> <li>• Water level management</li> <li>• Water depth (standing water - fresh water, brackish or saline)</li> <li>• Extent and condition of habitat cover (including species composition, vegetative cover and characteristic communities)</li> <li>• Inappropriate control of vegetation - burning, grazing, mowing or clearing of deadwood</li> <li>• Succession</li> <li>• Changes in creek system pattern</li> <li>• Coastal defences / coastal squeeze</li> <li>• Sea level rise</li> <li>• Isolating barrier - presence and nature</li> <li>• Sediment oxygen availability</li> <li>• Sedimentation regime</li> <li>• Physical loss - removal</li> </ul>           | 1. Management through Review of Consents, Management Scheme for European Marine Sites, Biodiversity Action Plan and other coastal strategies (including flood defence).                               |

| Site                 | Type | Vulnerabilities  | Opportunities  |
|----------------------|------|--|--|
| South Wight Maritime | SAC  | <ul style="list-style-type: none"> <li>• Physical loss - smothering</li> <li>• Physical damage - siltation</li> <li>• Physical damage - abrasion/erosion</li> <li>• Physical damage - selective extraction</li> <li>• Toxic contamination - synthetic compounds</li> <li>• Toxic contamination - non-synthetic compounds</li> <li>• Non-toxic contamination - changes in nutrient loading</li> <li>• Non-toxic contamination - changes in organic loading</li> <li>• Non-toxic contamination - changes in thermal regime</li> <li>• Non-toxic contamination - changes in turbidity</li> <li>• Non-toxic contamination - changes in salinity</li> <li>• Biological disturbance - non-native species, translocation or introduction</li> <li>• Biological disturbance - selective extraction of species</li> <li>• Extent and condition of habitat cover (including species composition, vegetative cover and characteristic communities)</li> <li>• Coastal defences / coastal squeeze</li> <li>• Sea level rise</li> <li>• Physical loss - removal</li> <li>• Physical loss - smothering</li> <li>• Physical damage - abrasion/erosion</li> <li>• Physical damage - selective extraction</li> <li>• Toxic contamination - synthetic compounds</li> <li>• Toxic contamination - non-synthetic compounds</li> <li>• Non-toxic contamination - changes in nutrient loading</li> <li>• Non-toxic contamination - changes in organic loading</li> </ul> | <p>1. Continue to co-ordinate and manage through a number of mechanisms including the review of consents procedure under the Habitats Regulations, the Management Scheme for European Marine Sites, Biodiversity Action Plans, other coastal strategies, management plans and management agreements. All future developments will be assessed for adverse effects on integrity under the Habitats Regulations.</p> |

| Site                              | Type | Vulnerabilities  | Opportunities   |
|-----------------------------------|------|--|---|
| Chichester and Langstone Harbours | SPA  | <ul style="list-style-type: none"> <li>• Non-toxic contamination - changes in thermal regime</li> <li>• Non-toxic contamination - changes in turbidity</li> <li>• Non-toxic contamination - changes in salinity</li> <li>• Biological disturbance - non-native species, translocation or introduction</li> <li>• Water level management</li> <li>• Water depth (standing water - fresh water, brackish or saline)</li> <li>• Changes in flow velocity</li> <li>• Extent and condition of habitat cover (including species composition, vegetative cover and characteristic communities)</li> <li>• Extent of suitable foraging habitat</li> <li>• Changes in creek system pattern</li> <li>• Coastal defences / coastal squeeze</li> <li>• Sea level rise</li> <li>• Sedimentation regime</li> <li>• Physical loss - removal</li> <li>• Physical loss - smothering</li> <li>• Physical damage - abrasion/erosion</li> <li>• Physical damage - selective extraction</li> <li>• Non-physical disturbance - noise</li> <li>• Non-physical disturbance - visual disturbance</li> <li>• Toxic contamination - synthetic compounds</li> <li>• Toxic contamination - non-synthetic compounds</li> <li>• Non-toxic contamination - changes in nutrient loading</li> <li>• Non-toxic contamination - changes in organic loading</li> <li>• Biological disturbance - non-native species, translocation or</li> </ul> | <ol style="list-style-type: none"> <li>1. Agri-environment schemes to control the use of fertilisers.</li> <li>2. Managed realignment of coastal defences to allow for climate change, sea level rise and consequent inland migration of transitional habitats.</li> <li>3. Appropriate water supply and treatment infrastructure to reduce or remove effects from abstraction and discharge.</li> <li>4. Further research into the disturbance effects of recreation.</li> </ol> |

| Site           | Type | Vulnerabilities   | Opportunities   |
|----------------|------|---|---|
| New Forest     | SPA  | <ul style="list-style-type: none"> <li>introduction</li> <li>• Biological disturbance - selective extraction of species</li> <li>• Predation - domestic animals</li> <li>• Height/density of vegetative cover (as bird refuge)</li> <li>• Obstruction to sight lines</li> <li>• Connectivity - between sheltering and foraging habitats</li> <li>• Food availability</li> <li>• Soil compaction</li> <li>• Extent and condition of habitat cover (including species composition, vegetative cover and characteristic communities)</li> <li>• Inappropriate control of vegetation - burning, grazing, mowing or clearing of deadwood</li> <li>• Non-physical disturbance - noise</li> <li>• Non-physical disturbance - visual disturbance</li> <li>• Biological disturbance - non-native species, translocation or introduction</li> <li>• Biological disturbance - selective extraction of species</li> <li>• Predation - domestic animals</li> <li>• Height/density of vegetative cover (as bird refuge)</li> <li>• Food availability</li> </ul> | <ol style="list-style-type: none"> <li>1. Continued habitat management (grazing, cutting and burning) and prevention of succession.</li> <li>2. Visitor management and control of dog walking.</li> <li>3. Infilling of unnecessary/damaging drainage ditches.</li> <li>4. Further monitoring and research into the effects of recreational pressures on ground-nesting birds.</li> </ol> |
|                |      | <ul style="list-style-type: none"> <li>• Water levels and hydrology (groundwater, rainwater or floodwater-fed)</li> <li>• Water level management</li> <li>• Water depth (standing water - fresh water, brackish or saline)</li> <li>• Increased abstractions</li> <li>• Extent and condition of habitat cover (including species</li> </ul>   |   |
| Pagham Harbour | SPA  |   | <ol style="list-style-type: none"> <li>1. Address historical land drainage for agricultural purposes through the Local Nature Reserve Management Plan and Management Agreements.</li> <li>2. Pollution from inadequate treatment of sewage discharges to be reviewed by the Environmental Agency.</li> </ol>  |

| Site               | Type | Vulnerabilities  | Opportunities  |
|--------------------|------|--|--|
| Portsmouth Harbour | SPA  | <p>composition, vegetative cover and characteristic communities)</p> <ul style="list-style-type: none"> <li>• Non-physical disturbance - noise</li> <li>• Non-physical disturbance - visual disturbance</li> <li>• Toxic contamination - synthetic compounds</li> <li>• Non-toxic contamination - changes in nutrient loading</li> <li>• Non-toxic contamination - changes in organic loading</li> <li>• Height/density of vegetative cover (as bird refuge)</li> <li>• Obstruction to sight lines</li> <li>• Connectivity - between sheltering and foraging habitats</li> <li>• Food availability</li> <li>• Water level management</li> <li>• Water depth (standing water - fresh water, brackish or saline)</li> <li>• Changes in flow velocity</li> <li>• Extent and condition of habitat cover (including species composition, vegetative cover and characteristic communities)</li> <li>• Extent of suitable foraging habitat</li> <li>• Changes in creek system pattern</li> <li>• Coastal defences / coastal squeeze</li> <li>• Sea level rise</li> <li>• Sedimentation regime</li> <li>• Physical loss - removal</li> <li>• Physical loss - smothering</li> <li>• Physical damage - abrasion/erosion</li> <li>• Physical damage - selective extraction</li> <li>• Non-physical disturbance - noise</li> </ul> | <ol style="list-style-type: none"> <li>1. Sensitive management of port operations (including dredging), recreation (on/off shore) and coastal defence.</li> <li>2. Implementation of Portsmouth Harbour Plan and management scheme for Solent complex of European marine sites.</li> <li>3. Implementation of coastal initiatives including Shoreline Management Plan, Estuarine Management Plans, etc.</li> </ol> |

| Site                         | Type | Vulnerabilities  | Opportunities  |
|------------------------------|------|--|--|
| Solent and Southampton Water | SPA  | <ul style="list-style-type: none"> <li>• Non-physical disturbance - visual disturbance</li> <li>• Toxic contamination - synthetic compounds</li> <li>• Toxic contamination - non-synthetic compounds</li> <li>• Non-toxic contamination - changes in nutrient loading</li> <li>• Non-toxic contamination - changes in organic loading</li> <li>• Biological disturbance - non-native species, translocation or introduction</li> <li>• Biological disturbance - selective extraction of species</li> <li>• Predation - domestic animals</li> <li>• Height/density of vegetative cover (as bird refuge)</li> <li>• Obstruction to sight lines</li> <li>• Connectivity - between sheltering and foraging habitats</li> <li>• Food availability</li> <li>• Water level management</li> <li>• Water depth (standing water - fresh water, brackish or saline)</li> <li>• Changes in flow velocity</li> <li>• Extent and condition of habitat cover (including species composition, vegetative cover and characteristic communities)</li> <li>• Extent of suitable foraging habitat</li> <li>• Changes in creek system pattern</li> <li>• Coastal defences / coastal squeeze</li> <li>• Sea level rise</li> <li>• Sedimentation regime</li> <li>• Physical loss - removal</li> <li>• Physical loss - smothering</li> <li>• Physical damage - abrasion/erosion</li> </ul> | <ol style="list-style-type: none"> <li>1. Sensitive management of port operations (including dredging), recreation (on/off shore) and coastal defence.</li> <li>2. Implementation of management scheme for Solent complex of European marine sites.</li> <li>3. Implementation of coastal initiatives including Shoreline Management Plan, Estuarine Management Plans, etc.</li> </ol> |

| Site                             | Type   | Vulnerabilities   | Opportunities                 |
|----------------------------------|--------|---|-------------------------------|
| Chichester and Langston Harbours | Ramsar | <ul style="list-style-type: none"> <li>• Physical damage - selective extraction</li> <li>• Non-physical disturbance - noise</li> <li>• Non-physical disturbance - visual disturbance</li> <li>• Toxic contamination - synthetic compounds</li> <li>• Toxic contamination - non-synthetic compounds</li> <li>• Non-toxic contamination - changes in nutrient loading</li> <li>• Non-toxic contamination - changes in organic loading</li> <li>• Biological disturbance - non-native species, translocation or introduction</li> <li>• Biological disturbance - selective extraction of species</li> <li>• Predation - domestic animals</li> <li>• Height/density of vegetative cover (as bird refuge)</li> <li>• Obstruction to sight lines</li> <li>• Connectivity - between sheltering and foraging habitats</li> <li>• Food availability</li> <li>• Water level management</li> <li>• Water depth (standing water - fresh water, brackish or saline)</li> <li>• Changes in flow velocity</li> <li>• Extent and condition of habitat cover (including species composition, vegetative cover and characteristic communities)</li> <li>• Extent of suitable foraging habitat</li> <li>• Coastal defences / coastal squeeze</li> <li>• Sea level rise</li> <li>• Sedimentation regime</li> <li>• Physical loss - removal</li> <li>• Physical loss - smothering</li> </ul> | None listed - see SPA listing |

| Site       | Type   | Vulnerabilities  | Opportunities                 |
|------------|--------|--|-------------------------------|
| New Forest | Ramsar | <ul style="list-style-type: none"> <li>• Physical damage - abrasion/erosion</li> <li>• Physical damage - selective extraction</li> <li>• Non-physical disturbance - noise</li> <li>• Non-physical disturbance - visual disturbance</li> <li>• Toxic contamination - synthetic compounds</li> <li>• Toxic contamination - non-synthetic compounds</li> <li>• Non-toxic contamination - changes in nutrient loading</li> <li>• Non-toxic contamination - changes in organic loading</li> <li>• Biological disturbance - non-native species, translocation or introduction</li> <li>• Biological disturbance - selective extraction of species</li> <li>• Predation - domestic animals</li> <li>• Height/density of vegetative cover (as bird refuge)</li> <li>• Obstruction to sight lines</li> <li>• Connectivity - between sheltering and foraging habitats</li> <li>• Food availability</li> <li>• Mix of acid and alkaline soil conditions</li> <li>• Soil compaction</li> <li>• Below-average rainfall / drought</li> <li>• Water levels and hydrology (groundwater, rainwater or floodwater-fed)</li> <li>• Water depth (standing water - fresh water, brackish or saline)</li> <li>• Extent and condition of habitat cover (including species composition, vegetative cover and characteristic communities)</li> <li>• Extent of suitable larval habitat (southern damselfly)</li> <li>• Extent of suitable larval habitat (stag beetle)</li> </ul> | None listed - see SPA listing |

| Site           | Type   | Vulnerabilities   | Opportunities   |
|----------------|--------|---|---|
| Pagham Harbour | Ramsar | <ul style="list-style-type: none"> <li>• Inappropriate control of vegetation - burning, grazing, mowing or clearing of deadwood</li> <li>• Succession</li> <li>• River channel workings leading to less natural form</li> <li>• Physical loss - removal</li> <li>• Physical damage - abrasion/erosion</li> <li>• Physical damage - selective extraction</li> <li>• Non-physical disturbance - noise</li> <li>• Non-physical disturbance - visual disturbance</li> <li>• Toxic contamination - synthetic compounds</li> <li>• Toxic contamination - non-synthetic compounds</li> <li>• Non-toxic contamination - changes in nutrient loading</li> <li>• Non-toxic contamination - changes in organic loading</li> <li>• Non-toxic contamination - changes in mineral loading</li> <li>• Biological disturbance - microbial pathogens</li> <li>• Biological disturbance - non-native species, translocation or introduction</li> <li>• Biological disturbance - selective extraction of species</li> <li>• Predation - domestic animals</li> <li>• Height/density of vegetative cover (as bird refuge)</li> <li>• Food availability</li> <li>• Water levels and hydrology (groundwater, rainwater or floodwater-fed)</li> <li>• Water level management</li> <li>• Water depth (standing water - fresh water, brackish or saline)</li> <li>• Extent and condition of habitat cover (including species</li> </ul> | <p>1. Annual monitoring of numbers of migratory and wintering wildfowl and waders as part of the national Wetland Birds Survey (WeBS) organised by the British Trust for Ornithology, Wildfowl &amp; Wetlands Trust, the Royal Society for the Protection of Birds and the Joint Nature Conservation Committee.</p> |

| Site               | Type   | Vulnerabilities   | Opportunities  |
|--------------------|--------|---|--|
|                    |        | <ul style="list-style-type: none"> <li>composition, vegetative cover and characteristic communities)</li> <li>• Toxic contamination - synthetic compounds</li> <li>• Non-toxic contamination - changes in nutrient loading</li> <li>• Non-toxic contamination - changes in organic loading</li> <li>• Predation - domestic animals</li> </ul>   | <ul style="list-style-type: none"> <li>2. Continued research and surveys into tidal regimes, sediment movement and the distribution of all major animal and plant groups in the region.</li> <li>3. Use of an interpretative centre (for the Local Nature Reserve) and full-time Education Officer to educate local schoolchildren on conservation.</li> </ul> |
| Portsmouth Harbour | Ramsar | <ul style="list-style-type: none"> <li>• Extent and condition of habitat cover (including species composition, vegetative cover and characteristic communities)</li> <li>• Coastal defences / coastal squeeze</li> <li>• Sea level rise</li> <li>• Sedimentation regime</li> <li>• Physical loss - removal</li> <li>• Physical loss - smothering</li> <li>• Physical damage - abrasion/erosion</li> <li>• Physical damage - selective extraction</li> <li>• Non-physical disturbance - noise</li> <li>• Non-physical disturbance - visual disturbance</li> <li>• Toxic contamination - synthetic compounds</li> <li>• Toxic contamination - non-synthetic compounds</li> <li>• Non-toxic contamination - changes in nutrient loading</li> <li>• Non-toxic contamination - changes in organic loading</li> <li>• Biological disturbance - non-native species, translocation or introduction</li> <li>• Biological disturbance - selective extraction of species</li> <li>• Predation - domestic animals</li> </ul> | None listed - see SPA listing  |

| Site                         | Type   | Vulnerabilities  | Opportunities                 |
|------------------------------|--------|--|-------------------------------|
| Solent and Southampton Water | Ramsar | <ul style="list-style-type: none"> <li>• Height/density of vegetative cover (as bird refuge)</li> <li>• Obstruction to sight lines</li> <li>• Connectivity - between sheltering and foraging habitats</li> <li>• Food availability</li> <li>• Extent and condition of habitat cover (including species composition, vegetative cover and characteristic communities)</li> <li>• Coastal defences / coastal squeeze</li> <li>• Sea level rise</li> <li>• Sedimentation regime</li> <li>• Physical loss - removal</li> <li>• Physical loss - smothering</li> <li>• Physical damage - abrasion/erosion</li> <li>• Physical damage - selective extraction</li> <li>• Non-physical disturbance - noise</li> <li>• Non-physical disturbance - visual disturbance</li> <li>• Toxic contamination - synthetic compounds</li> <li>• Toxic contamination - non-synthetic compounds</li> <li>• Non-toxic contamination - changes in nutrient loading</li> <li>• Non-toxic contamination - changes in organic loading</li> <li>• Biological disturbance - non-native species, translocation or introduction</li> <li>• Biological disturbance - selective extraction of species</li> <li>• Predation - domestic animals</li> <li>• Height/density of vegetative cover (as bird refuge)</li> <li>• Obstruction to sight lines</li> <li>• Connectivity - between sheltering and foraging habitats</li> </ul> | None listed - see SPA listing |

| Site | Type | Vulnerabilities   | Opportunities |
|------|------|---|---------------|
|      |      | <ul style="list-style-type: none"><li>• Food availability</li></ul> |               |