

Conditions Appendix

Geomorphology

1. Prior to the commencement of development, a Scheme of Geological Monitoring and Recording and programme of archaeological work shall be submitted to and approved in writing by the Local Planning Authority (in consultation with English Heritage and Natural England). Such a Scheme shall include agreement of an appointed contractor, notification of programme of works and agreed methodology, timetable and reporting requirements for such work including the completion of a geomorphological survey below the proposed Runway Extension footprint plus a 10m offset surrounding it, and a watching brief where any additional groundworks or permanent hardstands are required. The Scheme shall include:
 - A methodology agreed with Natural England and English Heritage setting out details of the survey to be completed in order to document the topography and sedimentology of the buried gravel and the overlying marsh sediments;
 - A methodology for dating and laboratory analyses shall be agreed and undertaken as part of the documenting the nature of such sediments should Holocene marsh sediments of significance to the SSSI designation be found (i.e. datable peat beds and/or bracketing sands above and below the gravel);
 - Delivery of a site archive which will include all records, reports and photographs which shall be submitted to and approved in writing by the Local Planning Authority in consultation with English Heritage and Natural England.
 - The monitoring and recording shall be carried out in accordance with the approved Scheme and details.
 - The monitoring and recording shall be in the format to be agreed with Natural England.

Great Crested Newt Conditions and Mitigation

2. Prior to commencement of any works towards the development including site preparation such as vegetation clearance, the following must be undertaken:
 - Up-to date relative population estimate surveys for great crested newts of the water bodies within the airport boundary including the area to be used as mitigation, and the terrestrial habitat around drainage ditches to be lost/realigned following best practice guidance.

- A full and detailed mitigation schedule to be submitted to Shepway District Council for agreement with Natural England. To include:
 - Details of the location, type number and any other pertinent information on the proposed refugia improvements must be submitted to the Planning authority for agreement with Natural England.
 - Details of the mitigation water body proposed by the applicant at the eastern end of the Cross Runway including design of water bodies, proposed access route, proposed machinery type, proposed methods of avoiding disturbance to the nearby SSSI vegetation,
 - Timing of all works including mitigation
 - Details of exclusion methods and any amphibian fencing proposed
 - A full schedule of ongoing great crested newt monitoring of both new water bodies (to determine the success of proposed mitigation) and of existing water bodies to assess the success of proposed mitigation to prevent water quality declines to existing newt breeding sites. The monitoring of all sites should be annual for the first five years then every 3 years thereafter. The monitoring should be designed in accordance with best practice methods described in English Nature (2001).

Conditions and mitigation for water vole

3. Prior to commencement of any works towards the development including site preparation such as vegetation clearance, the following must be undertaken:
 - Up-to date relative population estimate surveys of water voles of the ditches to be lost or realigned to the runway and those near or likely to be affected by the modifications at Hammonds Corner following best practice guidance (Natural England 2008) The surveys should be of the full ditch length not just the parts directly proposed to be under the runway footprint.
 - Submission of a scheme of mitigation which must include information on methodology of translocation (if proposed), capacity of the receptor site, a monitoring plan of both the mitigation site and new ditches, any exclusion measures for the development site and Hammonds Corner. In addition the mitigation scheme must include a plan for the ongoing positive management for the new ditches which integrates the habitat requirements of the various protected species. The scheme should be submitted to the planning authority for the agreement by Natural England.

Mitigation methods should be designed in accordance with best practice methods (e.g. Strachan and Moorhouse,2006).

- A full schedule of ongoing monitoring of new/ realigned ditches and any translocation or other mitigation water body (to determine the success of proposed mitigation) should be submitted to the planning authority and agreed with Natural England. . Monitoring methods should be designed in accordance with best practice methods (e.g. Natural England, 2008 and Strachan and Moorhouse, 2006).

Reptile conditions and mitigation

4. Prior to commencement of any works towards the development including site preparation such as vegetation clearance, the following must be undertaken:
 - Relative population estimate surveys for widespread reptiles of both the development site and Hammonds Corner following best practice guidance (English Nature, 2004).
 - Phase I habitat surveys, and reptile population surveys following best practice guidance of proposed receptor sites even if these are the adjacent habitats
 - Submission of a scheme of mitigation, which must include information on methodology of translocation, capacity of the receptor site, a monitoring plan of both the mitigation site and exclusion measures for the development site and Hammonds Corner. In addition the mitigation scheme must include a plan for the ongoing positive management for the reptile receptor site.

Conditions and mitigation for Bats

5. Prior to commencement of any works towards the development including site preparation such as vegetation clearance, the following must be undertaken:
 - Natural England recommends that bat surveys are undertaken of the main application site and the area affected by the Hammonds Corner modifications including the full length of any potential commuter corridors such as hedgerows and waterways (including ditches). The surveys should be designed in accordance with best practice guidelines of Bat Conservation Trust (2007).
 - Subject to the survey results a schedule of mitigation measures must be submitted to the planning authority and to Natural England for agreement. The mitigation proposals must be sufficiently details to enable an assessment of their efficacy. The mitigation measures must include details of how impacts will be avoided (for

example by type and location of lighting or timing of works) and how the conservation status of the affected species will be maintained.

Conditions for Medicinal leech

6. Prior to commencement of any works towards the development including site preparation such as vegetation clearance, the following must be undertaken:
 - New surveys are required to ensure that the medicinal leech populations of the ditches and all other water bodies are surveyed. This survey should follow the methodology used in the environmental statement surveys but should include survey maps and should in addition include some night time torch searches at an appropriate time of year, which can help improve success of finding medicinal leeches.
 - A schedule of mitigation measures should be agreed with Natural England and submitted to the planning authority. Mitigation proposals should include proposals, such as capture and translocation or/and proposals for compensatory habitat provision. Regular (annual for 3 years then every three to five years) monitoring of the leech populations within the “main pond” and other water bodies near the airport including the proposed new water bodies and new drainage ditches would be the only way of assessing whether the water bodies have become unsuitable for leeches due to the airport expansion.
 - In addition the mitigation scheme must include a plan for the ongoing positive management for the water bodies on site and how the needs of the various wetland protected species will be integrated in the various water bodies on site including those newly created as mitigation or to drain the runway.

Other Conditions Regarding Protected species

7. Prior to commencement of any works towards the development including site preparation such as vegetation clearance, the following must be undertaken:
 - The Kent Biological Records Centre should be consulted to assess the likelihood of any other (other than listed above) protected species being affected by the Hammonds Corner proposals. If any such species is identified survey and subsequent mitigation will be required.
 - A survey should be undertaken of badgers in Hammonds Corner area to identify the location of sett from which the badgers latrines (previously identified) are located.

- If the sett or badgers could be significantly adversely affected by the Hammonds Corner proposals a schedule of mitigation measures should be designed in accordance with best practice (Natural England 2009) and submitted for agreement with the local planning authority.